



# ADI POWDERS **HANDLOADERS' GUIDE**

5TH EDITION | 2010



**SHOOT WITH  
THE BEST**

COMING SOON

# SHOOT WITH THE BEST!

Take quality to the next level when you reload with ADI Cartridge Components

- > **.223 Unprimed Cases**
- > **.50 Calibre Unprimed Cases**



Developed exclusively for high performance  
and made to military specifications

[www.adi-powders.com.au](http://www.adi-powders.com.au)

THALES

## DEAR SHOOTER

It is with great pleasure that Thales Australia presents the 5th edition of our reloading guide. You will certainly notice some differences in this edition, the first of which may be that we have changed our company name from ADI Limited to Thales Australia Limited. However, we have retained the ADI Powders brand because the same great product is made by the same people in the same Australian manufacturing site. Thales Australia Limited is part of a strong and focussed international business and looks forward to serving the industry for many years to come.

Secondly, you will notice more data! Through our strong partnership with Hodgdon Powder Company. Inc. of the USA, we offer a reliable, much expanded range of data in this guide. Data for 19 new pistol calibres and 23 new rifle calibres has been added along with new data for existing calibres. The data has been fired under controlled conditions to ensure safety and repeatability. You will now see additional information including minimum and recommended starting loads.

All of our reloading information is also available via the internet from our database located at: [www.adi-powders.com.au](http://www.adi-powders.com.au). The website is updated with new data as it becomes available, and should be used for the most up to date data.

Finally, you will notice the inclusion of data for a new powder, Trail Boss, which was released in 2007. We have, and will continue to add new powders to our product range as they are developed as a result of your requirements and feedback. We are also proud to use this guide to introduce to you our retail 223 and 0.50 Cal cases, which will be available from later this year.

We hope you find this guide a valuable tool, and wish to thank you for your support over the years through the continued purchase of ADI Powders.

Happy Reloading



Rob Wellwood  
Manager – Ordnance Sales  
Thales Australia

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**ADI POWDERS**  
**HANDLOADERS' GUIDE**



## ADI POWDERS

ADI Powders cater for the full range of burning rate requirements from the fast burning handgun and shotgun powders to the very slow large calibre rifle powders.

The shotgun powders are disc powders, double base in composition, covering a wide range of applications in 12, 20 and 28 gauge loads. All the shotgun powders are exceptionally clean burning.

ADI handgun powders are smaller diameter disc powders manufactured for uniform metering through powder loaders. The faster burning powders are double base in composition for increased energy. The slower burning powders are single base for use in heavy loads. All the handgun powders are exceptionally clean burning when loaded correctly.

The rifle powders are single perforated tubular propellants of single base composition. Thales Australia's experience in developing powders for the Australian Defence Force has shown that powders with these characteristics are suitable for use in extreme climatic conditions. Consequently, all the rifle powders have, as a feature, ballistic temperature independence; that is, velocities and pressures do not vary greatly with ambient temperature. This is a unique and major advantage over the performance of other manufacturers' rifle powders. In addition, the ADI powders all have good loading characteristics with respect to bulk density and uniformity of metering through powder loaders. They are also very clean burning at normal loads.

The new Trail Boss propellant is single base in composition. It is shaped in discs with an obvious central hole which makes it easy to distinguish from other powders. The innovative propellant was designed to overcome the excessive space in your case for more consistent ballistic and safety performance.

All ADI Powders are packed as UN class 1, Hazard Division 1.3C (mass fire risk). ADI Powders are packed in 500g, 1kg, 1.5kg, 2kg or 4kg containers, depending upon the type of powder. Thales Australia Limited is Australia's leading manufacturer of high quality, proven powders for sporting applications.

Choose ADI Powders and **"SHOOT WITH THE BEST"**.

## THALES AUSTRALIA OVERVIEW

THALES

Thales is a global technology leader for the Aerospace, Space, Defence, Security and Transport markets. In 2009, the company generated revenues of 12.8 billion euros (equivalent to A\$18.8 billion) with 68,000 employees in 50 countries. With its 25,000 engineers and researchers, Thales has a unique capability to design, develop and deploy equipment, systems and services that meet the most complex security requirements. Thales has an exceptional international footprint, with operations around the world working with customers as local partners. Visit [www.thalesgroup.com](http://www.thalesgroup.com) for more information.

Thales Australia is a trusted partner of the Australian Defence Force and is also present in commercial sectors ranging from air traffic management to security systems and services. Employing around 3,500 people in over 35 sites across the country, Thales Australia recorded revenues of more than A\$1 billion in 2009.

Our propellants are distributed under the trading name of ADI Powders to maintain our links to over 120 years of experience in ammunition manufacture and nearly 100 years of powder production. The company can trace its roots to the Colonial Ammunition Company (1888, Footscray, Victoria) and the Cordite Factory (1911, Maribyrnong, Victoria). Since then we have seen many changes, but one constant has been our commitment to providing quality ammunition and components for use in the defence of our country.

Our ammunition and propellant capabilities have kept pace with rapid developments in applied technology. Our expertise and capability in energetic materials is second-to-none in our region. It now includes the production of:

- Insensitive rocket motor-propellant
- Insensitive warhead filling
- Propellant for the Australian Army's ammunition, from 5.56mm to 105mm Howitzer and 5"/54 Naval artillery.

Australia's sporting shooters who choose to reload have used ADI Powders for some years now. They are available on the Australian market as a direct result of our defence commitment; they are used by discerning shooters across the globe as a result of our international partnership. We are sure that our commitment to quality, innovation and our customers will see us at the forefront of powder development and manufacture for many years to come.

## ADI POWDERS

	<b>Powder</b>	<b>Application Type</b>	
	Trail Boss (New)	Rifle / Pistol	
	AS30N	Shotgun / Pistol	
	AP50N	Pistol	
	AS50N	Shotgun	
	AP70N	Shotgun / Pistol	
	AP100	Pistol	
	AR2205	Rifle / Pistol	
	AR2207	Rifle	
	Bench Mark 1	Rifle	
	AR2219	Rifle	
	Bench Mark 2	Rifle	
	AR2206H	Rifle	
	AR2208	Rifle	
	AR2209	Rifle	
	AR2213SC	Rifle	
	AR2217	Rifle	
	AR2225	Rifle	
	AR2218	Rifle	

# SHOTGUN POWDERS

*In approximate order of burning rate from fastest to slowest.*

## AS30N



A versatile fast burning rate, low bulk density shotgun and handgun powder. It can be loaded over a broad range of handgun cartridges giving superb accuracy, weapon function and clean burning. As a shotgun powder it can be loaded into 24 gram to 28 gram loads in 12 gauge with consistency and the cleanest burning characteristics gained.

**TYPICAL LOAD:** 12 gauge Winchester compression formed case 70mm length

WAD	Winchester WAA1224
PRIMER	Winchester W209
SHOT WEIGHT	24 grams lead shot
CHARGE WEIGHT	18.5 grains
VELOCITY	1,300 ft/sec
PRESSURE	9,500 psi

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## AS50N



An effective intermediate bulk density, fast/medium burning rate shotgun powder very suitable for 28 gram loads up to 1350 ft/sec in 12 gauge.

**TYPICAL LOAD:** 12 gauge Winchester compression formed case 70mm length

WAD	Winchester WAA12SL
PRIMER	Winchester W209
SHOT WEIGHT	28 grams lead shot
CHARGE WEIGHT	21.5 grains
VELOCITY	1,300 ft/sec
PRESSURE	10,450 psi



# SHOTGUN POWDERS

*In approximate order of burning rate from fastest to slowest.*

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## AP70N



A versatile medium burning rate handgun powder and an effective slow/medium burning rate shotgun powder. It can be loaded over a broad range of handgun cartridges, from .32 to .45 calibre. As a shotgun powder it can be loaded into 32 gram to 36 gram loads in 12 gauge as well as loads in 20 and 28 gauges.

**TYPICAL LOAD:** 12 gauge Winchester compression formed case 70mm length

WAD	Winchester WAA12
PRIMER	Winchester W209
SHOT WEIGHT	32 grams lead shot
CHARGE WEIGHT	24.5 grains
VELOCITY	1,300 ft/sec
PRESSURE	11,200 psi

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# PISTOL POWDERS

*In approximate order of burning rate from fastest to slowest.*

## AS30N



A versatile fast burning rate, low bulk density shotgun and handgun powder. It can be loaded over a broad range of handgun cartridges giving superb accuracy, weapon function and clean burning. As a shotgun powder it can be loaded into 24 gram to 28 gram loads in 12 gauge with consistency and the cleanest burning characteristics gained.

**TYPICAL LOAD:** .38 Special (4" vented barrel) with 148 grain cast lead projectile

CHARGE WEIGHT	2.5 grains
VELOCITY	836 ft/sec

## Trail Boss

New



Trail Boss is designed specifically for low velocity lead bullet loads for Single Action shooting. It is based on a whole new technology that allows very high loading density, good flow through powder measures, stability in regard to temperature variation and most importantly, additional safety for the handloader.

**TYPICAL LOAD:** 45 Colt with 200 grain cast lead projectile

CHARGE WEIGHT	6.5 grains
VELOCITY	855 ft/sec

## AP50N



An effective intermediate bulk density medium/fast burning rate handgun powder very suitable for medium target loads in .38 special. It has proven its usefulness in equipment such as 'Ammo' Load for the automated reloading of ammunition for police and paramilitary applications in this calibre. Its burning rate, bulk density and clean burning properties are similar to those of AS50N shotgun powder but it has superior metering characteristics for small charge weights.

**TYPICAL LOAD:** .38 Special (4" vented barrel) with 158 grain lead SWC projectile

CHARGE WEIGHT	3.6 grains
VELOCITY	745 ft/sec

# PISTOL POWDERS

*In approximate order of burning rate from fastest to slowest.*

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## AP70N



A versatile medium burning rate handgun powder and an effective slow/medium burning rate shotgun powder. It can be loaded over a broad range of handgun cartridges, from .32 to .45 calibre. As a shotgun powder it can be loaded into 32 gram to 36 gram loads in 12 gauge as well as loads in 20 and 28 gauges.

**TYPICAL LOAD:** .44 Remington Magnum (8" barrel) with 240 grain cast lead projectile

CHARGE WEIGHT	10 grains
VELOCITY	1,225 ft/sec

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## AP100



An effective single base slow burning rate handgun powder suitable for major power factor loads in .38 super and similar cartridges. It shares the same clean burning and superior metering characteristics with the other ADI handgun powders.

**TYPICAL LOAD:** .38 Super Auto (4" barrel) with 135 grain cast lead projectile

CHARGE WEIGHT	7.5 grains
VELOCITY	1,325 ft/sec

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## AR2205



A very fine grained, very fast burning rifle powder suited to .22 Hornet loads but also useful in some Magnum pistol loads. Its burning rate is close to that of IMR 4227.

**TYPICAL LOAD:** .357 Magnum (10" barrel) with 150 grain jacketed projectile

CHARGE WEIGHT	16.5 grains
VELOCITY	1,583 ft/sec

# RIFLE POWDERS

*In approximate order of burning rate from fastest to slowest.*

## Trail Boss

New



Trail Boss is designed specifically for low velocity lead bullet loads for Single Action shooting. It is based on a whole new technology that allows very high loading density, good flow through powder measures, stability in regard to temperature variation and most importantly, additional safety for the handloader.

**TYPICAL LOAD:** 45-70 Government with 385 grain cast lead projectile

CHARGE WEIGHT	16.0 grains
VELOCITY	1,140 ft/sec

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## AR2205



A very fine grained, very fast burning rifle powder suited to .22 Hornet loads but also useful in some Magnum pistol loads. Its burning rate is close to that of IMR 4227.

**TYPICAL LOAD:** .22 Hornet with 45 grain jacketed projectile

CHARGE WEIGHT	9.8 grains
VELOCITY	2,484 ft/sec

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## AR2207



A very useful fine grained fast burning rifle powder for cartridges such as the .222 Remington and 7.62mm x 39 Russian. Its burning rate is close to that of IMR 4198 although it meters significantly better through standard powder loaders.

**TYPICAL LOAD:** .222 Remington with 50 grain jacketed projectile

CHARGE WEIGHT	20.5 grains
VELOCITY	3,160 ft/sec



# RIFLE POWDERS

*In approximate order of burning rate from fastest to slowest.*

## Bench Mark 1



A very fine grained powder with very high bulk density and superior metering characteristics for use by bench rest shooters in cartridges such as .22 PPC. It is intermediate in burning rate between AR2207 and AR2206.

**TYPICAL LOAD:** .223 Remington with 55 grain jacketed projectile

CHARGE WEIGHT	22.6 grains
VELOCITY	2,995 ft/sec

## AR2219



Originally developed for the Australian Defence Force 5.56mm its burning rate lies between Bench Mark 1 and Bench Mark 2. It is considered having good accuracy in small and medium capacity cartridges.

**TYPICAL LOAD:** 6mm PPC with 70 grain jacketed projectile

CHARGE WEIGHT	26.5 grains
VELOCITY	3,068 ft/sec

## Bench Mark 2



A fine grained powder with very high bulk density and superior metering characteristics for use in national rifle association match loads such as 223 Remington with 68-69 grain projectiles. It is similar in burning rate to AR2206, but can be faster depending on the calibre used.

**TYPICAL LOAD:** .22-250 Remington with 52 grain jacketed projectile

CHARGE WEIGHT	34.6 grains
VELOCITY	3,755 ft/sec

## AR2206

**Discontinued**



A very versatile medium burning rifle powder suitable for use in .308 Winchester. Originally developed for the Australian Defence Forces 7.62mm. It can also be used in a wide range of other cartridges.

**TYPICAL LOAD:** .308 Winchester with 155 grain jacketed projectile

CHARGE WEIGHT	44.5 grains
VELOCITY	2,825 ft/sec

# RIFLE POWDERS

*In approximate order of burning rate from fastest to slowest.*

## AR2206H



Has a burning rate slightly slower than AR2206, but faster than AR2208. A very versatile powder in a range of calibres giving outstanding accuracy.

**TYPICAL LOAD:** .308 Winchester with 155 grain jacketed projectile

CHARGE WEIGHT	46 grains
VELOCITY	2,873 ft/sec

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## AR2208



A useful fine grained medium/slow burning rifle powder for medium sized cartridges such as .308 Winchester and 25-06. Its burning rate is close to that of IMR 4064 but its bulk density is higher.

**TYPICAL LOAD:** 30-30 Winchester with 150 grain jacketed projectile

CHARGE WEIGHT	34.5 grains
VELOCITY	2,349 ft/sec

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## AR2209



A useful fine grained, moderately slow burning rifle powder for cartridges such as 22-250, .243 Winchester, .270 Winchester, 30-06 and 300 Winchester Magnum. Its burning rate is close to that of IMR 4350 but its bulk density is a little higher and its metering through a powder loader is better.

**TYPICAL LOAD:** 30-06 Springfield with 165 grain jacketed projectile

CHARGE WEIGHT	59 grains
VELOCITY	2,835 ft/sec

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## AR2213SC



A slow burning rate rifle powder for cartridges such as .270 Winchester and 300 Winchester Magnum. AR2213SC replaced AR2213 in the Australian reloading market.

**TYPICAL LOAD:** 300 Winchester Magnum with 165 grain jacketed projectile

CHARGE WEIGHT	75.5 grains
VELOCITY	3,055 ft/sec

# RIFLE POWDERS

*In approximate order of burning rate from fastest to slowest.*

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## AR2217



A fine grained, very slow burning rifle powder, suited for use in most large calibre magnums.

**TYPICAL LOAD:** 7mm Remington Magnum with 150 grain jacketed projectile

CHARGE WEIGHT	68 grains
VELOCITY	2,936 ft/sec

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## AR2225



A very slow burning rate propellant optimised for the 300 Remington Ultra Magnum. It is also suitable for large capacity magnum cases and small overbore cartridges.

**TYPICAL LOAD:** 300 Remington Ultra Magnum with 180 grain jacketed projectile

CHARGE WEIGHT	100.5 grains
VELOCITY	3,300 ft/sec

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## AR2218



An extremely slow burning rifle propellant, initially developed for the Australian Defence Force 0.50 cal and is perfect for over-bore, large capacity magnums.

**TYPICAL LOAD:** 30-378 Weatherby with 220 grain jacketed projectile

CHARGE WEIGHT	118.5 grains
VELOCITY	3,145 ft/sec

# RIFLE CASES

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## .223 Cases

New



Thales has recently released .223 cases in bags of 100. These cases have been exclusively developed for military application and are manufactured to exacting military specifications. When you use ADI's cases you will achieve optimal performance and consistency every time. Used in conjunction with ADI powders you will be taking your quality, consistency and performance to the next level.

**TYPICAL LOAD:** 55 grain jacketed projectile with Bench Mark 1 Propellant.

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## .50 Cal Cases

New



Nothing will prepare you for the performance of our .50 calibre cases. This highly specialised military case was designed and is manufactured for ultimate performance to military specifications. When used in conjunction with ADI powders you will experience rifle shooting at the highest level. Cases will be sold in bags of 10.

**TYPICAL LOAD:** 655 grain jacketed projectile and AR2218 Propellant.



# SHOOT WITH THE BEST!

Take quality to the next level when you reload with  
ADI Powders and Cartridge Components

**COMING SOON**

**.223 CALIBRE AND**

**.50 CALIBRE CASES**



Developed exclusively for high performance  
and made to military specifications

[www.adi-powders.com.au](http://www.adi-powders.com.au)

**THALES**

# RELOADING SAFETY

## ADI POWDERS

1. These instructions on Reloading Safety should be read in conjunction with the Warnings section.
2. Take care at all times - items and equipment used for reloading can all be dangerous if mishandled or abused.
3. Keep reloading components out of the reach of children - in particular powder, primers and lead projectiles.
4. Keep powder away from other combustible material and from possible sources of ignition.
5. Do not keep old powders, salvaged powders or powders of uncertain origins.
6. Do not smoke in areas where powder is stored or while handling powder or primers.
7. Only store powder in its original container to avoid the risk of the powder being mislabelled.
8. Do not leave any powder or primers in reloading presses or in powder/primer dispensers after handloading is completed.
9. Clean up spilled powder promptly. Use a brush and dustpan. Do not use a vacuum cleaner. Keep the waste powder under water in a suitable container until it can be disposed of safely. Do not accumulate large amounts of waste powder.
10. Each ADI Powder has specific burning rate and bulking characteristics determined by its composition, geometry and manufacturing process. The factors are carefully controlled during manufacture to ensure consistent ballistic performance. Do not attempt to mix or blend different powders as such mixtures may produce dangerous and erratic velocities and pressures.
11. Develop a strict routine for reloading operations and avoid distraction such as television, visitors etc.
12. Recheck each operation for safety and uniformity.
13. Double check critical points like powder type, projectile weight and diameter before starting.
14. Only have one powder type and one projectile type in the actual working area while reloading.
15. Do not trim cases below the minimum design length for any calibre.
16. Ensure that cases are not deformed and are free of body splits, mouth cracks, enlarged primer pockets, enlarged flash holes and any foreign matter. Only use cases which are dry (but do not dry cases by direct heating or in an oven above 150° C).
17. Check projectiles for damage and ensure that lead projectiles are free from casting defects.
18. Always wear safety glasses or goggles while reloading and wear gloves while handling lead projectiles.
19. Owing to the effect of variations within allowable manufacturing tolerances for cartridge components made by different manufacturers, weapon variations and conditions, operating temperatures etc, pressures developed by any given rifle or pistol load can vary significantly from those that apply to our recommended loads. It is therefore essential that loads be worked up from a charge weight lower than the recommended maximum, watching for any signs of excessive pressure (difficult extraction, gas leaks, flattened or blown primers, unusual recoil or expanded case heads). Loads can then be worked up to safe comfortable levels providing signs of excessive pressure are not observed. If signs of excessive pressure are noticed then loads must be reduced until they are at least 5% lower than the load at which the excessive pressure signs were first noted.

# RELOADING SAFETY

## ADI POWDERS

20. Take special care when working up trial loads with slow burning powders in large calibre cartridges. Light loads in some calibres may produce occasional dangerously high pressures. It is suggested that minimum loads in large calibre cartridges should not be reduced below about 75% case capacity.
21. Keep detailed records of your safe loads for your weapons and consult them before reloading. However, be prepared to work them up again whenever you change the lot of powder or alter the weapon. Normally a starting reduction of 5% in charge weight is all that should be necessary when you change lots of powder.
22. Never exceed maximum recommended loads.
23. Carry out frequent check weighing of powder charges thrown either by a hand operated powder measure or reloading press to ensure the setting has not changed. At least five charges should be used for each check using a good set of powder scales.
24. Because many recommended loads (especially for pistols) do not fill the cartridge case it is essential that, prior to bullet seating, each filled case is individually inspected to ensure that it contains only a single charge. Never load a cartridge with a double charge as excessively dangerous pressures are certain to occur. After bullet seating, the cartridge overall length must be individually checked to ensure that it has not fallen below the minimum design value where excessive dangerous pressures may be experienced.
25. Ensure that all reloaded cartridges are free from oil, grease, excess lead bullet lubricant and any other foreign matter prior to firing.
26. Never attempt to decap live primers from a cartridge case. Primed cases or cartridges should always be fired in a firearm to destroy the primer. NOTE: Whenever practicable, avoid loading to maximum possible velocity. Experienced shooters know that velocities which are somewhat slower than maximum will usually give the best accuracy while helping to prolong weapon and barrel life and making shooting more comfortable.
27. Any questions or concerns related to the use of ADI Powders should be directed to:  
  
Thales Australia Limited, Mulwala NSW at  
[reload.support@adi-powders.com.au](mailto:reload.support@adi-powders.com.au)

# WARNING

## ADI POWDERS

1. For the safety of the purchaser and others, ADI powders must be used in accordance with the latest edition of the ADI Powders Handloaders' Guide. Overloading, incorrect storage or improper use can result in personal injury or death to the user and/or other persons as well as damage to property. It is essential that users of ADI powders:
  - Follow the recommendations of the ADI Powders Handloaders' Guide by not exceeding the maximum loads.
  - Use only the latest reloading data.
  - Keep the powders out of reach of children and those persons unfamiliar with the properties of powders.
  - Store the powders in a cool, dry and safe place with the lid tightly closed.
  - Check the powders at least once per year for any signs of deterioration as described below.
  - Store all powders in the original containers.
  - Do not smoke in areas where ADI powders are stored and used.
  - Do not have loaded firearms in areas where ADI powders are stored and used.
2. Loading data provided within the ADI Powders Handloaders' Guide has been compiled from many sources including actual ballistic testing by Thales under controlled conditions and published loading/ballistic information available in the literature. The ballistic performance of powders varies considerably depending upon factors such as the type of firearm being used and its condition, the particular components being used in a cartridge with a powder, the reloading techniques used, the actual batch of the powder being loaded, weather conditions at the time of firing, etc. Therefore, it is not possible for the loading data in the ADI Powders Handloaders' Guide (or any other similar manual) to be other than a guide to a safe load for any particular application. Exceeding the recommended loading data will increase the chance of obtaining unsafe pressures and may result in damage and/or personal injury or even death.
3. While Thales controls the burning rate of its various powders within tight limits at the time of manufacture, all other factors affecting the ballistic performance of these powders at the time of use are outside Thales's control. Thales therefore disclaims any and all warranties concerning the use of its various powders for any particular application. Thales does not assume, nor does it authorise any person to assume for it, any liability in connection with the use of any product or data.
4. The buyer of ADI Powders assumes the risk of having to follow safe loading practices otherwise damage and/or severe personal injury (including death) may occur.
5. NEVER substitute ADI Powders for black powder or Pyrodex® and NEVER mix ADI powders with these materials. NEVER use ADI powders in black powder firearms, saluting cannons or similar devices. Any of these practices may result in the firearm blowing apart resulting in property damage, personal injury or even death.



# WARNING

## ADI POWDERS

6. Store powders in a cool dry place separate from solvents, flammable gases and other combustible materials. Ensure that the storage area selected is free from any possible source of excess heat and is isolated from open flame, hot water heaters, furnaces, chimneys, flue pipes, etc. Avoid storing powders in areas which may be heated by the sun or where electrical, electronic or mechanical equipment is operated. Do not allow containers of powder to contact walls of storage areas that are exposed on the other side to sunlight or other form of heating. Any such form of heating or ignition may result in a fire, either immediately or after some time due to accelerated chemical deterioration and subsequent spontaneous ignition. An average storage temperature below 25° C is recommended to obtain a safe shelf life of at least 10 years from the date of packing. Increased storage temperature will reduce the safe shelf life significantly—by approximately one-third for every 10° C above 25° C.
7. All powders deteriorate chemically as they get older. This rate of deterioration can be accelerated by storage in warm conditions, exposure to other chemicals and exposure to direct sunlight etc. Any such deterioration may ultimately lead to a fire through spontaneous ignition of the powder. CHECK containers of smokeless powder for possible chemical deterioration through age or inadequate storage. Yearly checks are recommended. Chemical deterioration may ultimately lead to spontaneous ignition of the powder. Chemical deterioration of smokeless powder can be recognised by carefully smelling the contents of the container. Any deterioration produces an acrid, acidic odour quite different from the normal sweet smelling odours of ethanol or ether that are usually present. Rusting of metal surfaces exposed to smokeless powder can also indicate deterioration.
8. Deteriorated smokeless powder should be disposed of by carefully burning it in thin layers (not more than 10mm deep) in small quantities (never more than 500 gram) in an isolated location (at least 10 metres from any other combustible material). DO NOT LIGHT THE POWDER DIRECTLY. Always use an ignition train of slow burning combustible material so that you are able to retreat to a safe distance before the powder ignites.
9. Store ADI Powders in their original containers, which have been approved for that purpose. Storage cabinets used for storage of containers of powders should be constructed of insulating materials with weak walls, seams or joints to provide easy venting in the event of a fire. Such storage cabinets should not be located on walls where heating on the other side (by the sun or other heating arrangement) will occur.
10. DO NOT SMOKE in areas where smokeless powder is stored or used.
11. DO NOT HAVE LOADED FIREARMS in areas where ADI Powders are stored or used—accidental or intended operation of the firearm may cause ignition of smokeless powder, either by direct ignition of powder in the open or through bullet impact on containers of powders.
12. Do not cut, pierce or puncture powder containers.
13. ADI rifle powders are designed to give less ballistic variation with temperature changes than regular powders. This does not mean that ballistics will never change with temperature. The extent to which change is minimised depends upon many factors including the calibre, primer brand and projectile weight. Care should always be taken to ensure that any particular load is safe at the extreme temperatures at which it will be used.

# WARNING

## ADI POWDERS

14. Powders can change their moisture reasonably quickly if exposed to the atmosphere. Any change of moisture can affect the powder burning rate and the effectiveness or safety of a particular load. Always minimise the exposure of any smokeless powder to the atmosphere during loading. Use minimum quantities of powder at any time in powder loaders and keep lids on containers tightly closed at all times. Do not keep powders in loaders for long periods of time. In this way you are more likely to preserve the appropriate level of moisture for the lot of the powder in use and obtain consistent reliable ballistic performances from every load.
15. Follow the hints on Reloading Safety given in the ADI Powders Reloader's Guide. Remember that powders and ammunition are explosive and that firearms are only designed to operate within safe working limits and are not indestructible. The wrong combination of powder burning rate, charge weight, cartridge components and weapon can be disastrous. ALWAYS TAKE EXTREME CAUTION when you are reloading.
16. Never mix any varieties of powder, regardless of their type, brand or source.
17. Do not salvage powder from old cartridges, and do not mix new and salvaged powder.
18. Always store powder in the smallest practical quantities. If you have large quantities of powder, do not maintain it all in one place only. Spread your containers, and remember that small containers are safer than large containers.



## SHOTGUN DATA

Loads listed here should be followed as they are printed. These loads are for use with lead shot only, and must not be used with steel shot under any circumstances.

**NEVER EXCEED THE MAXIMUM RECOMMENDED LOADS.**

# SHOTGUN DATA

# SHOTGUN

## Introduction

The shotgun data for this edition was developed through the use of pressure/proof barrels. All loads for standard cartridges adhere to the guidelines provided by the Sporting Arms and Ammunition Manufacturers Institute (SAAMI).

Loads have been listed in a convenient presentation that lists all components used for a given set of data. The data shown is to be used for lead shot only and should not be used with steel or bismuth shot. Never substitute components when loading shotshells using this data. Substitution of different components could cause excessive or unsafe pressures, which may result in damage to your firearm and/or personal injury.

## Velocity

Velocity is measured electronically with the use of two magnetic sightscreens. The screens measure the time taken for the shot to pass through the screens. Screens are set at 3 feet apart with the first screen positioned 1½ feet from the muzzle.

## Pressure

Pressures have been measured electronically with a transducer as pounds per square inch (psi). This method utilises a pressure transducer, which rests against the cartridge in the chamber. When the cartridge is fired, the gases cause the shotgun shell to expand against the pressure transducer.

## Loading Instructions

When loading, weigh actual charges thrown by the bushing or charge bar. Bushing or charge bars do not throw the exact powder charge as listed in the tables. Charge weight variations occur because of small tolerances in bushing sizes, tolerances in bulk density of powder and the way each loader is mounted and operated. It is essential that charges being dropped are verified for safety and to ensure you are obtaining the charge weight listed.

# SHOTGUN

## 12 Gauge 2¾" (70mm) ACTIV Plastic Cases

Weight: 24g - (7/8 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>AS30N</b>	19.0	6,150 psi	1,200	Gualandi	WIN209 Fiocchi 616	30"
	20.0	6,600 psi	1,250	Gualandi	WIN209 Fiocchi 616	30"
	20.5	7,150 psi	1,300	Gualandi	WIN209 Fiocchi 616	30"
	21.5	7,700 psi	1,350	Gualandi	WIN209 Fiocchi 616	30"
	22.5	8,250 psi	1,400	Gualandi	WIN209 Fiocchi 616	30"

Weight: 28g - (1 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>AS30N</b>	19.0	8,100 psi	1,200	Gualandi	WIN209 Fiocchi 616	30"
	19.8	9,000 psi	1,250	Gualandi	WIN209 Fiocchi 616	30"
	21.0	10,200 psi	1,300	Gualandi	WIN209 Fiocchi 616	30"
<b>AS50N</b>	21.0	7,050 psi	1,200	Gualandi	WIN209 Fiocchi 616	30"
	21.6	7,850 psi	1,250	Gualandi	WIN209 Fiocchi 616	30"
	22.6	8,700 psi	1,300	Gualandi	WIN209 Fiocchi 616	30"

Weight: 32g - (1 1/8 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>AS30N</b>	18.7	11,250 psi	1,200	Gualandi	WIN209 Fiocchi 616	30"
<b>AS50N</b>	21.0	8,550 psi	1,200	Gualandi	WIN209 Fiocchi 616	30"
	22.0	10,450 psi	1,250	Gualandi	WIN209 Fiocchi 616	30"
	22.6	11,350 psi	1,300	Gualandi	WIN209 Fiocchi 616	30"

# SHOTGUN

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>Weight 32g - (1 1/8 oz) - Shot size 3 to 12 Lead (cont.)</b>						
<b>AP70N</b>	26.0	8,800 psi	1,250	Gualandi	WIN209 Fiocchi 616	30"
	27.0	9,850 psi	1,300	Gualandi	WIN209 Fiocchi 616	30"

## Weight: 36g - (1 1/4 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>AP70N</b>	25.5	9,200 psi	1,200	Gualandi	WIN209 Fiocchi 616	30"
	26.4	10,150 psi	1,250	Gualandi	WIN209 Fiocchi 616	30"
	27.5	10,900 psi	1,300	Gualandi	WIN209 Fiocchi 616	30"

## 12 Gauge 2¾" (70mm) Plastic Reißenhauser style cases (Fiocchi Cheddite)

### Weight: 24g - (7/8 oz) - Lee Lead Slug

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>AP70N</b>	31.3	8,435 psi	1,550	B&P H.24	Fiocchi 616	30"
	32.6	7,812 psi	1,550	WAA12SL	WIN209	30"

### Weight: 24g - (7/8 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>AS30N</b>	19.0	6,150 psi	1,200	Gualandi	WIN209 Fiocchi 616	30"
	20.0	6,600 psi	1,250	Gualandi	WIN209 Fiocchi 616	30"
	20.5	7,150 psi	1,300	Gualandi	WIN209 Fiocchi 616	30"
	21.5	7,700 psi	1,350	Gualandi	WIN209 Fiocchi 616	30"
	22.5	8,250 psi	1,400	Gualandi	WIN209 Fiocchi 616	30"
	16.8	6,200 psi	1,200	WAA12SL	WIN209	30"
	18.0	7,200 psi	1,250	WAA12SL	WIN209	30"
	19.0	8,000 psi	1,300	WAA12SL	WIN209	30"

# SHOTGUN

Weight: 28g - (1 oz) - Lee Lead Slug

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	30.0	8,446 psi	1,450	WAA12	WIN209	30"
	30.4	8,303 psi	1,450	B&P H.24	WIN209	30"

Weight: 28g - (1 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AS30N	17.1	7,800 psi	1,180	WAA12SL	WIN209	30"
	18.5	9,200 psi	1,235	WAA12SL	WIN209	30"
	19.3	10,060 psi	1,290	WAA12SL	WIN209	30"
	19.5	7,750 psi	1,200	Gualandi	WIN209 Fiocchi 616	30"
	20.0	8,200 psi	1,250	Gualandi	WIN209 Fiocchi 616	30"
	21.0	9,050 psi	1,300	Gualandi	WIN209 Fiocchi 616	30"
	22.0	9,800 psi	1,350	Gualandi	WIN209 Fiocchi 616	30"
AS50N	19.0	7,100 psi	1,180	WAA12SL	WIN209	30"
	20.0	8,600 psi	1,235	WAA12SL	WIN209	30"
	21.1	9,600 psi	1,290	WAA12SL	WIN209	30"
	21.5	6,600 psi	1,200	Gualandi	WIN209 Fiocchi 616	30"
	22.5	7,250 psi	1,250	Gualandi	WIN209 Fiocchi 616	30"
	23.5	8,050 psi	1,300	Gualandi	WIN209 Fiocchi 616	30"
	24.5	9,500 psi	1,350	Gualandi	WIN209 Fiocchi 616	30"

Weight: 32g - (1 1/8 oz) - Shot size 2 to BBs Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	26.5	8,096 psi	1,300	B&P H.24	Fiocchi 616	30"
	26.7	7,934 psi	1,300	WAA12	WIN209	30"
	27.8	8,898 psi	1,350	B&P H.24	Fiocchi 616	30"
	27.9	8,722 psi	1,350	WAA12	WIN209	30"
	28.4	9,299 psi	1,375	B&P H.24	Fiocchi 616	30"
	28.5	9,116 psi	1,375	WAA12	WIN209	30"

# SHOTGUN

Weight: 32g - (1 1/8 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>AS50N</b>	19.2	7,000 psi	1,090	WAA12	WIN209	30"
	19.7	7,400 psi	1,145	WAA12	WIN209	30"
	21.0	8,500 psi	1,200	WAA12	WIN209	30"
	22.0	8,500 psi	1,200	Gualandi	WIN209 Fiocchi 616	30"
	22.8	9,500 psi	1,255	Gualandi	WIN209 Fiocchi 616	30"
	23.5	11,000 psi	1,300	Gualandi	WIN209 Fiocchi 616	30"
<b>AP70N</b>	23.3	9,100 psi	1,200	WAA12	WIN209	30"
	24.0	9,600 psi	1,255	WAA12	WIN209	30"
	25.0	10,800 psi	1,310	WAA12	WIN209	30"

Weight: 36g - (1 1/4 oz) - Shot size 2 to BBs Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>AP70N</b>	25.8	8,626 psi	1,250	B&P H.21	Fiocchi 616	30"
	26.1	8,313 psi	1,250	WAA12F114	WIN209	30"
	26.9	9,554 psi	1,300	B&P H.21	Fiocchi 616	30"
	26.9	9,305 psi	1,300	WAA12F114	WIN209	30"
	27.7	10,296 psi	1,350	WAA12F114	WIN209	30"
	28.0	10,482 psi	1,350	B&P H.21	Fiocchi 616	30"

Weight: 36g - (1 1/4 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>AP70N</b>	24.0	10,900 psi	1,220	WAA12F114	Fiocchi 616	30"

Weight: SG/00 - 9 Lead Balls

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>AS50N</b>	22.3	7,067 psi	1,250	WAA12F114	WIN209	30"
	22.7	7,153 psi	1,250	B&P H.21	Fiocchi 616	30"
	23.5	8,164 psi	1,300	WAA12F114	WIN209	30"
	23.9	8,243 psi	1,300	B&P H.21	Fiocchi 616	30"
	24.7	9,260 psi	1,350	WAA12F114	WIN209	30"
	25.0	9,334 psi	1,350	B&P H.21	Fiocchi 616	30"
<b>AP70N</b>	25.8	7,931 psi	1,300	B&P H.21	Fiocchi 616	30"
	26.7	7,312 psi	1,300	WAA12F114	WIN209	30"
	27.2	8,523 psi	1,350	B&P H.21	Fiocchi 616	30"



# SHOTGUN

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>Weight SG/00 - 9 Lead Balls (cont.)</b>						
<b>AP70N (cont.)</b>	27.6	8,150 psi	1,350	WAA12F114	WIN209	30"
	28.5	9,115 psi	1,400	B&P H.21	Fiocchi 616	30"
	28.5	8,988 psi	1,400	WAA12F114	WIN209	30"

## 12 Gauge 2¾" (70mm) Winchester Compression-formed AA & HS type plastic cases

### Weight: 24g - (7/8 oz) - Lee Lead Slug

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>AP70N</b>	29.7	9,548 psi	1,550	WAA12SL	WIN209	30"

### Weight: 24g - (7/8 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>AS30N</b>	16.8	7,000 psi	1,200	WAA1224	WIN209 CCI209 Fiocchi 616	30"
	17.5	8,350 psi	1,255	WAA1224	WIN209 CCI209 Fiocchi 616	30"
	18.5	9,500 psi	1,300	WAA1224	WIN209 CCI209 Fiocchi 616	30"
	19.2	10,600 psi	1,350	WAA1224	WIN209 CCI209 Fiocchi 616	30"
<b>AS50N</b>	21.0	7,800 psi	1,300	WAA1224	WIN209 CCI209 Fiocchi 616	30"
	22.0	8,300 psi	1,350	WAA1224	WIN209 CCI209 Fiocchi 616	30"

### Weight: 28g - (1 oz) - Lee Lead Slug

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>AP70N</b>	28.1	9,984 psi	1,450	WAA12	WIN209	30"

# SHOTGUN

Weight: 28g - (1 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>AS30N</b>	17.0	8,450 psi	1,180	WAA12SL	WIN209 CCI209 Fiocchi 616	30"
	18.5	9,750 psi	1,250	WAA12SL	WIN209 CCI209 Fiocchi 616	30"
	19.5	11,000 psi	1,300	WAA12SL	WIN209 CCI209 Fiocchi 616	30"
<b>AS50N</b>	19.5	8,000 psi	1,180	WAA12SL	WIN209 CCI209 Fiocchi 616	30"
	20.4	9,200 psi	1,250	WAA12SL	WIN209 CCI209 Fiocchi 616	30"
	21.5	10,450 psi	1,300	WAA12SL	WIN209 CCI209 Fiocchi 616	30"
	22.5	11,250 psi	1,350	WAA12SL	WIN209 CCI209 Fiocchi 616	30"

Weight: 32g - (1 1/8 oz) - Shot size 2 to BBs Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>AP70N</b>	24.1	8,403 psi	1,250	WAA12	WIN209	30"
	25.0	9,411 psi	1,300	WAA12	WIN209	30"
	25.9	10,418 psi	1,350	WAA12	WIN209	30"
	26.4	10,922 psi	1,375	WAA12	WIN209	30"

Weight: 32g - (1 1/8 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>AS30N</b>	16.3	7,500 psi	1,090	WAA12	WIN209 CCI209 Fiocchi 616	30"
	17.0	10,000 psi	1,145	WAA12	WIN209 CCI209 Fiocchi 616	30"

# SHOTGUN

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>Weight 32g - (1 1/8 oz) - Shot size 3 to 12 Lead (cont.)</b>						
<b>AS50N</b>	19.0	9,000 psi	1,145	WAA12	WIN209 CCI209 Fiocchi 616	30"
	19.5	9,850 psi	1,200	WAA12	WIN209 CCI209 Fiocchi 616	30"
<b>AP70N</b>	23.0	9,750 psi	1,200	WAA12	WIN209 CCI209 Fiocchi 616	30"
	23.5	10,100 psi	1,250	WAA12	WIN209 CCI209 Fiocchi 616	30"
	24.5	11,200 psi	1,300	WAA12	WIN209 CCI209 Fiocchi 616	30"

## Weight: 36g - (1 1/4 oz) - Shot size 2 to BBs Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>AP70N</b>	23.8	10,365 psi	1,250	WAA12F114	WIN209	30"
	24.9	11,358 psi	1,300	WAA12F114	WIN209	30"

## Weight: 36g - (1 1/4 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>AP70N</b>	22.5	11,400 psi	1,220	WAA12F114	CCI209	30"
	23.0	10,900 psi	1,220	WAA12F114	WIN209	30"

## Weight: SG/00 - 9 Lead Balls

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
<b>AS50N</b>	21.1	8,963 psi	1,250	WAA12F114	WIN209	30"
	22.3	10,023 psi	1,300	WAA12F114	WIN209	30"
	23.5	11,084 psi	1,350	WAA12F114	WIN209	30"
<b>AP70N</b>	24.9	8,646 psi	1,300	WAA12F114	WIN209	30"
	25.8	9,498 psi	1,350	WAA12F114	WIN209	30"
	26.7	10,350 psi	1,400	WAA12F114	WIN209	30"

# SHOTGUN

## 16 Gauge 2<sup>3</sup>/<sub>4</sub>" (70mm) Winchester AA Plastic Compression-Formed Cases

Weight: 28g - (1 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	19.0	9,200 psi	1,165	WAA16	WIN209	30"
	20.0	10,300 psi	1,220	WAA16	WIN209	30"
	20.7	11,000 psi	1,220	WAA16	WIN209	30"

## 20 Gauge 2<sup>3</sup>/<sub>4</sub>" (70mm) ACTIV Plastic Cases

Weight: 24g - (7/8 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	18.5	8,300 psi	1,200	WAA20	WIN209	30"

Weight: 28g - (1 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	18.5	8,700 psi	1,165	WAA20F1	CCI209	30"
	19.0	9,600 psi	1,220	WAA20F1	CCI209	30"

## 20 Gauge 2<sup>3</sup>/<sub>4</sub>" (70mm) Winchester AA Plastic Compression-Formed Cases

Weight: 22g - (3/4 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	15.0	8,700 psi	1,180	WAA20	WIN209 CCI209	30"
	16.0	9,820 psi	1,245	WAA20	WIN209 CCI209	30"
	17.0	11,050 psi	1,320	WAA20	WIN209 CCI209	30"

Weight: 24g - (7/8 oz) - Shot size 3 to 12 Lead

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	15.0	10,100 psi	1,125	WAA20	WIN209 CCI209	30"
	15.5	10,700 psi	1,160	WAA20	WIN209 CCI209	30"
	16.0	11,400 psi	1,200	WAA20	WIN209 CCI209	30"

# SHOTGUN

## 20 Gauge 3" (75mm) Remington Premier Plastic Cases

Weight: 32g - (1 1/8 oz) - Shot size 3 to 12 Lead						
POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	17	10,070 psi	1,075	Rem. SP 20	WIN209	30"
	18	11,990 psi	1,135	Rem. SP 20	WIN209	30"

## 20 Gauge 3" (75mm) Winchester AA Plastic Compression-Formed Cases

Weight: 32g - (1 1/8 oz) - Shot size 3 to 12 Lead						
POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	16	11,130 psi	1,070	Rem. SP 20	WIN209	30"
	16.5	11,980 psi	1,105	Rem. SP 20	WIN209	30"

## 28 Gauge 2¾" (70mm) Winchester AA Plastic Compression-Formed Cases

Weight: 22g - (3/4 oz) - Shot size 3 to 12 Lead						
POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AP70N	13.0	10,800 psi	1,200	WWAA28	WIN209	30"

## 410 Bore 2½" Winchester AA Plastic Compression-Formed Cases

Weight: 14g - (1/2 oz) - Shot size 3 to 12 Lead						
POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE	BARREL LENGTH
AR2205	14.0	10,500 psi	1,200	WWAA41	WIN209 CCI209M	28"

# SHOTGUN POWDER BUSHING CHART AS30N

CHARGEWEIGHT (grains)	LEE	PONSNESS WARREN	BLAIR	MEC	LYMAN	REDDING	DL-155 DL-155APF DL-105	PACIFIC DL-266	DL-366	GT, FW, LT A, AP, D, DP	TEXAN M	HORNADY
16.0	.141	H		29								429
16.5	.148	F1				12	414	420	420	124	126	
	.155	I	429	30	H10	13						
17.0	.163	J		31						125	127	441
17.5		J1	441		H11		423	432	432		128	
18.0		J2		32		14				127	129	456
18.5	.171	G	450				432	441	441	128		
		G1		33							130	
19.0	.180				H11A		444	450	450	129	131	468
			459	34	H12							
19.5		M	465							130	132	
20.0	.189			35			453	459	462	131		483
20.5		N		36	H13	15				132		
21.0		O		37								495
21.5		P										
22.0	.198	Q		38								507
22.5				38A								
23.0												
23.5												

**NOTE:** This bushing chart does not represent recommended charge weights. It is intended only as a guide to the approximate weight of powder that will be dropped by the listed bushing. It is essential that charges being dropped are weighed on each occasion a loading machine is used.

# SHOTGUN POWDER BUSHING CHART AS50N

CHARGE WEIGHT (grains)	LEE	PONSNESS WARREN	BLAIR	MEC	LYMAN	REDDING	DL-155 DL-155APF DL-105	PACIFIC DL-266	DL-366	GT, FW, LT A, AP, D, DP	TEXAN M	HORNADY
13.7	.105			21								
14.0												375
14.3				22								378
14.6												381
												384
14.9				23								387
												390
15.2	.116	D										393
15.5		D1		24								396
16.0	.122	E		25								402
16.5	.128	E1		26								408
				27								414
17.0		E2										
17.5	.134	F1		28								420
18.0				29								423
18.5	.141	H				12				124		429
19.0		I	429	30	H10	13	414	420	420	125	126	435
19.5	.148	J		31							127	441
20.0		J1	441		H11		423	423	432	126	128	447
20.5	.155	K	450	32		14				127		453
							432	441	441		129	
21.0				33						128	130	459
21.5	.163	L			H11A					129		465
			459		H12		444	450	450		131	
22.0				34						130		471
22.5	.171	M	465								132	477
23.0				35			453	459	462	131	133	483
23.5	.180	N		36		15	462	479	474	132		489
24.0		O			H13							495
24.5	.189	P		37								501
25.0		Q		38								507
25.5												
26.0	.198			38A								

**NOTE:** This bushing chart does not represent recommended charge weights. It is intended only as a guide to the approximate weight of powder that will be dropped by the listed bushing. It is essential that charges being dropped are weighed on each occasion a loading machine is used.

# SHOTGUN POWDER BUSHING CHART AP70N

CHARGE WEIGHT (grains)	LEE	PONSNESS WARREN	BLAIR	MEC	LYMAN	REDDING	DL-155 DL-155APF DL-105	PACIFIC DL-266	DL-366	GT, FW, LT A, AP, D, DP	TEXAN M	HORNADY
12.7		C									112	
13.0		C		16								330
13.5				17							113	
13.6										111		
14.0		D1		18						112	114	342
14.5				19							115	
15.0	.095										116	354
15.5		E		20						113	117	
16.0				21						114		366
		E1		22						115		
16.5										116	118	372
	.105											
17.0		E2		22							119	378
		D								117		
17.4				23								384
	.110	D1								118	120	
18.0		F									121	390
18.5	.116	F1		24								393
19.0		F6		25						119	122	402
19.4	.122		26							120	123	405
20.0	.123	G		27						121	124	411
20.6		G1								122		417
21.0	.134			28						123		420
21.5							423	420	420		126	423
22.0		H		29		12				124	127	429
22.5	.141			30	H10		432	432	432		128	432
23.0		I	429			13				125		438
23.5	.148			31	H11					126		441
						14				127		
24.0	.151	J	441				447	447	447		129	447
24.5	.155	J1		32							130	450
25.0		K					456	456	456	128	131	456
	.163	L	450	33						129		
26.0			459	34			468	468	468		132	468
				35						130	133	
27.0	.171	M	465				480	480	480	131		480
28.0		N		36		15				132		489
29.0		O		37	H13					133		501

**NOTE:** This bushing chart does not represent recommended charge weights. It is intended only as a guide to the approximate weight of powder that will be dropped by the listed bushing. It is essential that charges being dropped are weighed on each occasion a loading machine is used.





## PISTOL DATA

This section shows the maximum load for every configuration of pistol, bullet weight and powder type. It also shows the recommended starting load for some configurations. Pressure variations, due to different components; weapons; weapon conditions and powder lots, are relatively greater for pistols than for rifles. Therefore, for your first load, use the starting load; if no starting load is shown, it is essential that you use 20% less than the maximum load.

To work up to your safe load, increase the starting load by no more than 2% at a time.

The pistol loads shown are for jacketed projectiles unless otherwise specified.

**NEVER EXCEED THE MAXIMUM RECOMMENDED LOADS.**

# PISTOL DATA

# PISTOL

## Introduction

The pistol data for this edition was developed through the use of pressure/proof barrels. All loads for standard cartridges adhere to the guidelines provided by the Sporting Arms and Ammunition Manufacturers Institute (SAAMI). For data on obsolete or less popular cartridges where a pressure/proof barrel was not available, maximum loads were obtained by firings in actual firearms while noting visual case head signs such as flat or cratered primers, difficult extraction and measured case heads.

## Velocity

Velocities for all cartridges listed are limited by the SAAMI maximum allowable pressures. Minimum loads are also established by pressure, since loads with very low pressure may fail to function in very cold weather, resulting in a projectile becoming lodged in the bore (please see the Warnings section of this guide).

The average loss in velocity from the listed pressure/proof barrel data when using a 4⅝ inch barrelled revolver is 175 fps. A 7½ inch revolver will lose approximately 50 fps.

Velocity is measured electronically with the use of two infrared sightscreens. The screens measure the time taken for the projectile to pass through the screens. Screens are set at 20 feet apart with the first screen positioned 5 feet from the muzzle.

## Pressure

Pressures are listed in either copper units of pressure (cup) or pounds per square inch (psi). Copper units of pressure (cup) is determined mechanically using a copper slug called a "crusher". The crusher is placed in a fixture over the chamber where a hole passes through the barrel to the chamber. When the cartridge is fired, the resulting gases cause the "crusher" to flatten. The "crusher" is then measured and the result is then converted to pressure in by comparing to a tarage table.

Pressure data listed listed in psi was measured electronically with the use of a pressure transducer. The pressure transducer rests against the cartridge when loaded in the chamber. When the cartridge is fired, the gases cause the brass to expand against the pressure transducer.

## Loading Instructions

When working up a load, the reloader should always begin with the starting load, advance in small increments, watch for pressure signs and begin again if changing components. Generally, the best powder choice is the powder that most fills the case for the intended velocity while still remaining clean burning. Most cartridges have only a certain number of appropriate powders. Those cartridges that are more versatile can use a wider range of propellant burning rates. For others, lesser numbers of propellants will give optimum results.

Most often, slower burning powders are more suitable with heavy bullets, while faster powders are better with lighter projectiles. Most reloaders like a powder that delivers near maximum or maximum results throughout the range of projectiles, but that is not always obtainable, since some cartridges have too wide a range of bullets for any one burning rate to be ideal.

The handloader that seriously loads for any given cartridge will choose different components (primer, powders, projectiles, cases) in varying combinations to obtain the best overall performance and accuracy. The handloader reloads to save money, but also reloads to improve accuracy and performance, creating special loads that cannot be found on the dealers' shelves.

# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.17 Bumble Bee 10" Barrel								
	25	AR2205	6.0	2,035	-	7.0	2,330	-
.22 Hornet (TCU) 15" Barrel								
	35	AR2205	10.5	2,580	35,600 cup	11.6C	2,770	42,500 cup
	40	AR2205	9.0	2,405	39,900 cup	10.2	2,460	43,000 cup
	45	AR2207	10.5	2,000	28,000 cup	11.5C	2,200	32,000 cup
	45	AR2205	8.5	2,200	39,900 cup	9.8	2,350	42,000 cup
	50	AR2205	8.4	2,120	39,700 cup	9.4	2,270	41,800 cup
	50	AR2207	10.5	2,005	28,200 cup	11.5C	2,205	34,100 cup
	53	AR2205	8.0	1,945	37,600 cup	8.7	2,070	43,000 cup
	53	AR2207	10.0	1,860	31,600 cup	11.0	2,100	40,600 cup
	55	AR2205	8.0	1,990	41,800 cup	9.0	2,150	43,000 cup
	55	AR2207	10.0	1,845	30,000 cup	11.5	2,180	41,000 cup
.22 Remington Jet (TCU) 10" Barrel (except where noted)								
Note: 8 3/8" Barrel	40	AP100	-	-	-	8.0	1,800	-
	40	AR2205	-	-	-	13.5	2,290	32,900 cup
	45	AP100	-	-	-	7.5	1,700	-
	45	AR2205	-	-	-	12.5	2,300	-
.221 Remington Fireball 10 3/4" Barrel								
	40	AR2205	15.5	2,925	-	17.0	3,035	-
	45	AR2205	15.0	2,590	-	16.0	2,700	-
	45	AR2207	16.0	2,450	-	17.0	2,630	-
	50	AR2205	15.0	2,580	-	16.0	2,670	-
	50	AR2207	15.5	2,410	-	16.5	2,540	-
	53	AR2205	15.0	2,450	-	16.0	2,605	-
	53	AR2207	15.5	2,345	-	16.5	2,540	-
	55	AR2205	14.5	2,420	-	15.5	2,505	-
	55	AR2207	15.0	2,260	-	16.0	2,440	-
	60	AR2205	14.0	2,330	-	15.0	2,415	-
	60	AR2207	15.0	2,250	-	16.0	2,400	-
.222 Remington (TCU) 10" Barrel								
	45	AR2207	-	-	-	20.5	2,575	-
	50	AR2207	-	-	-	20.0	2,525	-
	52	AR2207	-	-	-	19.6	2,425	-
	55	AR2207	-	-	-	19.2	2,325	-
.223 Remington 15" Barrel								
	40	AR2207	20.5	2,755	29,400 cup	22.5	3,015	49,600 cup
	40	AR2219	23.5	2,785	34,600 cup	25.5	3,085	48,000 cup
	40	Bench Mark 2	25.3	2,900	39,600 cup	27.3	3,175	51,000 cup
	40	AR2206H	25.0	2,630	32,100 cup	27.5C	3,060	44,500 cup

C = Compressed Load: L = Lead Projectile

# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.223 Remington 15" Barrel (cont.)								
	40	AR2208	25.0	2,610	34,400 cup	28.0C	3,070	47,200 cup
	45	AR2207	20.0	2,615	28,800 cup	22.0	2,850	49,100 cup
	45	AR2219	23.0	2,635	36,000 cup	25.0	2,925	47,400 cup
	45	Bench Mark 2	25.3	2,815	41,400 cup	27.3	3,090	51,100 cup
	45	AR2206H	25.0	2,605	33,800 cup	27.5C	3,015	43,400 cup
	45	AR2208	25.0	2,550	30,200 cup	28.0C	3,010	43,700 cup
	50	AR2207	19.5	2,430	32,400 cup	21.5	2,825	45,900 cup
	50	AR2219	22.0	2,460	36,500 cup	24.0	2,740	49,300 cup
	50	Bench Mark 2	24.0	2,640	38,600 cup	26.5	2,955	50,400 cup
	50	AR2206H	25.0	2,660	38,300 cup	27.5C	3,025	51,300 cup
	50	AR2208	26.5	2,840	40,800 cup	27.5C	2,960	44,800 cup
	53	AR2207	19.5	2,650	34,200 cup	21.5	2,845	46,700 cup
	53	AR2219	21.5	2,530	39,200 cup	23.5	2,710	48,900 cup
	53	Bench Mark 2	24.0	2,650	39,900 cup	26.0	2,930	49,800 cup
	53	AR2206H	25.0	2,660	37,400 cup	27.0C	2,965	48,600 cup
	53	AR2208	24.0	2,450	38,400 cup	27.0C	2,835	47,900 cup
	55	AR2207	19.0	2,400	34,800 cup	21.0	2,720	47,600 cup
	55	AR2219	21.0	2,440	38,600 cup	23.0	2,640	48,900 cup
	55	Bench Mark 2	24.0	2,625	42,600 cup	25.6	2,840	50,000 cup
	55	AR2206H	25.0	2,720	39,700 cup	26.0	2,880	49,000 cup
	55	AR2208	25.5	2,700	41,300 cup	27.5C	2,975	49,700 cup
	60	AR2207	18.0	2,450	42,500 cup	20.0	2,645	47,600 cup
	60	AR2219	22.0	2,525	40,300 cup	23.5	2,655	49,800 cup
	60	Bench Mark 2	23.0	2,515	42,500 cup	24.6	2,745	49,900 cup
	60	AR2206H	24.0	2,515	37,600 cup	26.0C	2,805	50,100 cup
	60	AR2208	25.0	2,545	40,400 cup	27.0C	2,825	51,900 cup
	63	AR2207	18.0	2,295	33,600 cup	20.0	2,570	44,600 cup
	63	AR2219	20.0	2,240	38,100 cup	22.0	2,480	48,400 cup
	63	Bench Mark 2	22.0	2,320	41,800 cup	24.2	2,600	50,500 cup
	63	AR2206H	23.5	2,435	43,300 cup	25.5	2,800	50,000 cup
	63	AR2208	24.5	2,565	42,400 cup	26.4	2,810	50,700 cup
.22 BR Remington 15" Barrel								
	40	AR2207	25.5	3,145	43,200 cup	27.6	3,395	50,400 cup
	40	AR2219	28.0	3,000	38,000 cup	30.0	3,245	49,000 cup
	40	Bench Mark 2	30.0	3,250	41,400 cup	32.0	3,485	49,200 cup
	40	AR2206H	31.0	3,150	38,300 cup	32.8	3,320	46,400 cup
	40	AR2208	33.5	3,100	36,500 cup	31.5	3,285	43,500 cup
	45	AR2219	29.0	3,130	41,000 cup	31.5	3,445	49,400 cup
	45	Bench Mark 2	29.5	3,105	41,100 cup	31.6	3,410	48,900 cup

**C** = Compressed Load: **L** = Lead Projectile

# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.22 BR Remington 15" Barrel (cont.)								
	45	AR2206H	30.0	2,980	41,600 cup	32.5	3,335	49,000 cup
	45	AR2208	31.5	3,005	36,800 cup	33.5	3,245	43,600 cup
	50	AR2219	28.0	3,035	37,000 cup	30.5	3,290	50,000 cup
	50	Bench Mark 2	29.5	3,115	40,400 cup	31.5	3,375	49,700 cup
	50	AR2206H	29.5	2,960	41,200 cup	32.0	3,230	48,000 cup
	50	AR2208	31.5	3,040	38,900 cup	33.5	3,250	44,600 cup
	53	AR2219	28.0	3,070	38,000 cup	30.0	3,280	48,400 cup
	53	Bench Mark 2	28.5	3,075	41,200 cup	30.5	3,270	49,200 cup
	53	AR2206H	29.5	3,035	41,900 cup	31.5	3,235	49,000 cup
	53	AR2208	31.0	3,050	43,400 cup	33.0	3,225	51,500 cup
	55	AR2219	28.0	3,125	40,000 cup	30.0	3,275	48,400 cup
	55	Bench Mark 2	28.5	3,060	41,600 cup	30.5	3,275	49,600 cup
	55	AR2206H	29.0	3,015	37,100 cup	31.0	3,215	49,400 cup
	55	AR2208	30.0	3,030	41,600 cup	32.5	3,205	49,300 cup
	63	AR2219	24.0	2,700	40,800 cup	26.5	2,910	48,800 cup
	63	Bench Mark 2	27.0	2,900	42,000 cup	29.0	3,075	49,300 cup
	63	AR2206H	26.0	2,690	41,600 cup	28.0	2,885	49,400 cup
	63	AR2208	28.5	2,870	44,500 cup	30.5	3,015	49,300 cup
	70	AR2219	22.0	2,515	40,000 cup	24.0	2,675	49,900 cup
	70	Bench Mark 2	26.0	2,830	43,400 cup	28.0	2,955	49,700 cup
	70	AR2206H	23.0	2,490	41,400 cup	24.5	2,610	50,000 cup
	70	AR2208	26.0	2,650	43,000 cup	28.0	2,815	49,500 cup
6mm (TCU) 14" Barrel								
	70	AR2219	26.5	2,600	-	28.5	2,860	-
	70	AR2206H	27.5	2,590	-	29.5	2,895	-
	75	AR2219	26.0	2,500	-	28.0	2,810	-
	75	AR2206H	27.0	2,515	-	29.0	2,820	-
	80	AR2219	25.0	2,465	-	27.5	2,730	-
	80	AR2206H	26.0	2,480	-	28.5	2,740	-
	85	AR2219	24.5	2,435	-	26.5	2,645	-
	85	AR2206H	25.5	2,450	-	27.5	2,650	-
	90	AR2219	24.0	2,380	-	26.0	2,505	-
	90	AR2206H	25.0	2,400	-	27.0	2,540	-
	100	AR2219	23.0	2,180	-	25.0	2,400	-
	100	AR2206H	24.0	2,170	-	26.0	2,410	-
6mm BR Remington 15" Barrel								
	55	AR2207	26.0	2,965	37,600 cup	28.8	3,230	51,000 cup
	55	AR2219	30.0	3,030	38,800 cup	32.5	3,275	51,100 cup
	55	Bench Mark 2	31.0	2,990	41,200 cup	33.5C	3,230	50,300 cup

C = Compressed Load: L = Lead Projectile

# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6mm BR Remington 15" Barrel (cont.)								
	55	AR2206H	31.0	2,910	37,300 cup	33.0C	3,085	45,300 cup
	55	AR2208	31.0	2,725	31,600 cup	34.0C	3,015	41,800 cup
	58	AR2207	26.0	2,995	38,000 cup	28.5	3,235	49,900 cup
	58	AR2219	29.5	2,985	40,100 cup	31.3	3,180	48,400 cup
	58	Bench Mark 2	30.0	3,015	42,000 cup	32.0	3,200	50,600 cup
	58	AR2206H	31.5	3,020	38,000 cup	33.5	3,205	45,100 cup
	58	AR2208	31.0	2,850	34,300 cup	34.0	3,115	46,100 cup
	60	AR2207	25.0	2,890	39,600 cup	27.5	3,120	50,700 cup
	60	AR2219	30.0	3,065	42,000 cup	32.0	3,265	49,500 cup
	60	Bench Mark 2	30.0	2,945	41,400 cup	32.0	3,140	49,900 cup
	60	AR2206H	31.0	2,930	42,000 cup	33.0C	3,130	47,000 cup
	60	AR2208	31.0	2,755	36,000 cup	34.0C	3,055	48,500 cup
	65	AR2207	25.0	2,850	42,200 cup	27.0	3,025	49,100 cup
	65	AR2219	27.0	2,760	36,800 cup	30.5	3,075	49,600 cup
	65	Bench Mark 2	27.0	2,680	36,000 cup	30.5	2,990	46,400 cup
	65	AR2206H	30.0	2,820	37,700 cup	33.0C	3,145	49,300 cup
	65	AR2208	31.0	2,840	42,200 cup	33.0C	3,030	49,900 cup
	70	AR2219	28.0	2,765	38,700 cup	30.0	2,980	47,000 cup
	70	Bench Mark 2	29.7	2,815	39,900 cup	31.6	3,055	49,000 cup
	70	AR2206H	29.0	2,655	38,200 cup	31.0	2,895	47,000 cup
	70	AR2208	31.0	2,755	38,900 cup	34.0	2,985	49,400 cup
	75	AR2219	26.0	2,655	47,100 cup	28.0	2,800	47,000 cup
	75	Bench Mark 2	29.0	2,785	41,700 cup	31.0	2,980	49,600 cup
	75	AR2206H	28.5	2,660	40,000 cup	30.5	2,860	47,000 cup
	75	AR2208	30.5	2,710	42,200 cup	32.5	2,865	50,000 cup
	80	AR2219	26.0	2,630	39,300 cup	28.0	2,770	47,000 cup
	80	Bench Mark 2	28.5	2,715	40,900 cup	30.5	2,895	49,400 cup
	80	AR2206H	28.0	2,610	40,400 cup	30.0	2,765	47,000 cup
	80	AR2208	30.5	2,695	43,100 cup	32.5	2,850	50,700 cup
	85	AR2219	22.0	2,300	40,400 cup	24.0	2,455	47,000 cup
	85	Bench Mark 2	27.7	2,670	42,100 cup	29.7	2,825	49,800 cup
	85	AR2206H	24.5	2,325	38,100 cup	26.5	2,495	49,500 cup
	85	AR2208	29.0	2,590	43,100 cup	31.0	2,760	50,800 cup
	90	AR2219	22.0	2,275	40,600 cup	24.0	2,435	48,000 cup
	90	Bench Mark 2	27.0	2,595	43,200 cup	29.0	2,760	49,300 cup
	90	AR2206H	24.5	2,325	40,400 cup	27.0	2,545	48,000 cup
	90	AR2208	27.5	2,490	39,500 cup	30.2	2,695	47,500 cup
	100	AR2219	22.0	2,210	42,000 cup	23.5	2,330	50,000 cup
	100	Bench Mark 2	26.0	2,445	43,100 cup	28.0	2,610	49,500 cup

C = Compressed Load: L = Lead Projectile

# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6mm BR Remington 15" Barrel (cont.)								
	100	AR2206H	24.5	2,275	42,500 cup	27.0	2,470	49,000 cup
	100	AR2208	26.0	2,290	43,000 cup	28.0	2,455	48,900 cup
	107	AR2219	23.0	2,270	40,800 cup	25.5	2,435	49,200 cup
	107	Bench Mark 2	26.0	2,405	42,000 cup	28.0	2,575	49,800 cup
	107	AR2206H	24.5	2,265	37,900 cup	27.5	2,480	49,800 cup
	107	AR2208	26.0	2,255	39,800 cup	29.0C	2,495	50,100 cup
.25 ACP 2" Barrel								
	35	AP70N	1.5	825	14,500 cup	1.7	920	16,200 cup
	50	AP50N	-	-	-	1.2	750	-
	50	AP70N	1.2	620	12,000 cup	1.4	750	16,600 cup
.256 Winchester Magnum 10" Barrel								
	60	AR2205	15.0	2,155	-	16.0	2,385	-
	60	AR2207	-	-	-	18.0	1,705	-
	75	AR2205	14.0	2,025	-	15.0	2,120	-
	87	AR2205	13.0	1,800	-	14.0	2,040	-
	87	AR2207	-	-	-	15.0	2,010	-
6.5mm (TCU) 14" Barrel								
	87	AR2207	21.0	2,140	-	23.0	2,370	-
	87	AR2219	24.0	2,115	-	26.0	2,310	-
	87	AR2206H	25.0	2,180	-	27.0	2,405	-
	100	AR2207	20.0	1,915	-	22.0	2,100	-
	100	AR2219	23.0	1,920	-	25.0	2,120	-
	100	AR2206H	24.0	2,050	-	26.0	2,230	-
	120	AR2207	19.0	1,770	-	21.0	1,995	-
	120	AR2219	21.5	1,855	-	23.5	2,035	-
	120	AR2206H	23.0	1,880	-	25.0	2,075	-
	129	AR2207	18.0	1,690	-	20.0	1,850	-
	129	AR2219	21.0	1,730	-	23.0	1,910	-
	129	AR2206H	22.5	1,785	-	24.5	1,970	-
	140	AR2207	17.0	1,590	-	19.0	1,715	-
	140	AR2219	20.0	1,615	-	22.0	1,800	-
	140	AR2206H	21.0	1,660	-	23.0	1,840	-
6.5mm BR 15" Barrel								
	90	AR2219	29.0	2,560	39,400 cup	31.0	2,735	49,100 cup
	90	Bench Mark 2	29.7	2,580	42,300 cup	31.7	2,810	49,100 cup
	90	AR2206H	31.0	2,510	35,800 cup	33.0C	2,715	44,100 cup
	90	AR2208	31.0	2,440	35,400 cup	33.0C	2,625	41,500 cup
	95	AR2219	28.8	2,540	40,300 cup	30.7	2,725	50,000 cup
	95	Bench Mark 2	29.0	2,550	43,200 cup	31.0	2,710	49,000 cup

C = Compressed Load: L = Lead Projectile

# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6.5mm BR 15" Barrel (cont.)								
	95	AR2206H	31.0	2,545	40,000 cup	33.0C	2,745	48,500 cup
	95	AR2208	31.0	2,485	40,000 cup	33.0C	2,645	45,900 cup
	100	AR2219	28.0	2,425	39,400 cup	29.7	2,575	50,200 cup
	100	Bench Mark 2	28.3	2,405	41,700 cup	30.2	2,550	49,400 cup
	100	AR2206H	31.0	2,530	41,700 cup	33.0C	2,705	49,100 cup
	100	AR2208	31.0	2,475	39,600 cup	33.0C	2,640	48,700 cup
	107	AR2219	27.2	2,395	39,100 cup	29.0	2,530	49,800 cup
	107	Bench Mark 2	27.8	2,330	40,200 cup	29.6	2,590	49,400 cup
	107	AR2206H	29.8	2,490	38,900 cup	31.8C	2,635	47,900 cup
	107	AR2208	30.5	2,460	41,800 cup	32.5C	2,625	48,500 cup
	120	AR2219	26.7	2,240	40,800 cup	28.5	2,415	49,500 cup
	120	Bench Mark 2	27.2	2,200	43,800 cup	29.0	2,400	50,000 cup
	120	AR2206H	29.0	2,360	41,300 cup	31.0C	2,510	47,700 cup
	120	AR2208	29.0	2,290	39,400 cup	31.0C	2,425	45,100 cup
	129	AR2219	26.0	2,190	44,500 cup	27.7	2,300	49,200 cup
	129	Bench Mark 2	26.3	2,150	43,800 cup	28.0	2,270	49,600 cup
	129	AR2206H	28.4	2,230	44,200 cup	30.3C	2,390	49,400 cup
	129	AR2208	29.0	2,235	44,200 cup	31.0C	2,385	49,900 cup
	140	AR2219	25.0	2,075	43,900 cup	26.7	2,180	50,200 cup
	140	Bench Mark 2	26.3	2,100	44,200 cup	28.0	2,230	49,800 cup
	140	AR2206H	28.2	2,195	44,200 cup	30.0C	2,310	49,000 cup
	140	AR2208	28.3	2,165	42,100 cup	30.2C	2,300	49,000 cup
	142	AR2219	24.5	2,065	44,200 cup	26.1	2,195	49,400 cup
	142	Bench Mark 2	25.2	2,065	45,500 cup	26.9	2,180	49,900 cup
	142	AR2206H	27.3	2,145	41,900 cup	29.0	2,290	49,300 cup
	142	AR2208	27.9	2,165	40,900 cup	29.7C	2,285	49,600 cup
6.5mm JDJ 14" Barrel								
	120	AR2209	35.0	2,120	-	40.0	2,415	-
	129	AR2213SC	35.0	1,975	-	39.0	2,195	-
	140	AR2213SC	33.0	1,650	-	37.0	1,970	-
270 Ren 10" Barrel								
	90	AR2205	8.5	1,370	-	9.5	1,590	-
	100	AR2205	8.0	1,180	-	9.0	1,405	-
	110	AR2205	7.8	1,160	-	8.7	1,370	-
7mm (TCU) 14" Barrel								
	100	AR2205	17.0	1,750	-	19.0	2,010	-
	100	AR2207	22.0	2,005	-	24.0	2,175	-
	100	AR2219	25.0	2,030	-	26.0	2,170	-
	100	AR2206H	25.0	1,915	-	26.0	2,070	-

**C** = Compressed Load: **L** = Lead Projectile



# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm (TCU) 14" Barrel (cont.)								
	120	AR2205	16.0	1,660	-	18.0	1,915	-
	120	AR2207	21.0	1,880	-	23.0	2,075	-
	120	AR2219	24.0	1,900	-	26.0	2,115	-
	120	AR2206H	24.0	1,820	-	26.0	2,020	-
	130	AR2205	15.0	1,490	-	17.0	1,675	-
	130	AR2207	20.0	1,745	-	22.0	1,935	-
	130	AR2219	23.0	1,725	-	25.0	1,990	-
	130	AR2206H	24.0	1,795	-	26.0	2,005	-
	139	AR2205	14.5	1,440	-	16.5	1,635	-
	139	AR2207	19.0	1,715	-	21.0	1,905	-
	139	AR2219	22.0	1,745	-	24.0	1,940	-
	139	AR2206H	23.0	1,750	-	25.0	2,000	-
	150	AR2205	14.0	1,405	-	16.0	1,600	-
	150	AR2207	18.5	1,640	-	20.5	1,835	-
	150	AR2219	21.5	1,675	-	23.5	1,860	-
	150	AR2206H	22.0	1,690	-	24.0	1,875	-
	162	AR2205	13.0	1,315	-	15.0	1,475	-
	162	AR2207	17.5	1,520	-	19.5	1,730	-
	162	AR2219	20.0	1,610	-	22.0	1,790	-
	162	AR2206H	21.0	1,630	-	23.0	1,795	-
	168	AR2207	-	-	-	18.5	1,700	-
	175	AR2207	-	-	-	18.0	1,520	-
7mm BR Remington 14" Barrel								
	100	AR2207	26.0	2,335	36,600 cup	28.5	2,570	49,900 cup
	100	AR2219	29.0	2,250	37,700 cup	31.5C	2,515	49,800 cup
	100	Bench Mark 2	29.0	2,195	38,800 cup	32.0C	2,510	50,100 cup
	100	AR2206H	31.0	2,310	40,900 cup	33.0C	2,485	45,300 cup
	115	AR2207	26.0	2,255	41,500 cup	28.5	2,475	50,500 cup
	115	AR2219	29.0	2,225	37,200 cup	31.5C	2,475	49,800 cup
	115	Bench Mark 2	30.0	2,250	41,600 cup	32.0C	2,475	49,800 cup
	115	AR2206H	31.0	2,315	38,900 cup	33.0C	2,450	45,300 cup
	120	AR2207	25.5	2,260	40,200 cup	27.5	2,400	49,500 cup
	120	AR2219	28.0	2,210	39,800 cup	30.8	2,425	50,400 cup
	120	Bench Mark 2	29.0	2,200	43,100 cup	31.0	2,390	49,900 cup
	120	AR2206H	30.0	2,200	39,600 cup	32.7C	2,460	49,800 cup
	130	AR2207	25.0	2,175	40,000 cup	27.0	2,360	50,500 cup
	130	AR2219	28.0	2,170	40,500 cup	30.0C	2,385	50,600 cup
	130	Bench Mark 2	28.0	2,160	40,700 cup	30.2C	2,340	50,000 cup
	130	AR2206H	30.0	2,225	43,900 cup	32.0C	2,390	49,200 cup

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# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm BR Remington 14" Barrel (cont.)								
	139	AR2207	24.0	2,080	42,500 cup	26.0	2,260	49,800 cup
	139	AR2219	26.5	2,095	40,100 cup	28.5C	2,250	49,700 cup
	139	Bench Mark 2	27.5	2,080	41,200 cup	29.7C	2,265	49,900 cup
	139	AR2206H	29.0	2,115	41,200 cup	31.0C	2,265	47,000 cup
	145	AR2219	27.0	2,085	37,400 cup	28.5C	2,220	47,500 cup
	145	Bench Mark 2	27.5	2,050	40,400 cup	29.7C	2,265	50,400 cup
	145	AR2206H	29.0	2,145	42,400 cup	31.0C	2,265	47,500 cup
	150	AR2219	26.5	2,045	40,400 cup	28.5C	2,205	49,600 cup
	150	Bench Mark 2	27.0	2,010	41,900 cup	29.5C	2,230	50,200 cup
	150	AR2206H	28.5	2,055	39,600 cup	30.5C	2,215	48,300 cup
	162	AR2219	26.0	1,975	39,800 cup	28.3	2,175	49,800 cup
	162	Bench Mark 2	27.0	2,000	41,200 cup	29.0C	2,170	49,500 cup
	162	AR2206H	27.5	1,965	37,500 cup	29.5C	2,130	49,600 cup
	168	AR2219	26.0	1,985	40,300 cup	28.0	2,125	49,600 cup
	168	Bench Mark 2	26.5	1,985	41,400 cup	28.5	2,120	49,700 cup
	168	AR2206H	28.0	2,030	42,300 cup	30.0C	2,160	49,200 cup
7-30 Waters 15" Barrel								
	100	AR2219	27.0	2,185	30,500 cup	30.0	2,450	40,200 cup
	100	Bench Mark 2	27.0	2,180	29,600 cup	30.5	2,415	39,300 cup
	100	AR2206H	34.0	2,450	33,500 cup	37.0C	2,640	39,200 cup
	100	AR2208	35.0	2,375	31,400 cup	38.0C	2,530	35,000 cup
	120	AR2219	26.0	2,040	29,500 cup	29.0	2,265	40,200 cup
	120	Bench Mark 2	26.5	2,080	31,500 cup	29.5	2,275	40,200 cup
	120	AR2206H	31.0	2,240	33,200 cup	34.5	2,435	39,400 cup
	120	AR2208	34.0	2,280	31,100 cup	37.0C	2,445	40,000 cup
	130	AR2219	25.0	1,960	31,600 cup	27.3	2,150	39,300 cup
	130	Bench Mark 2	25.0	1,960	28,900 cup	28.0	2,170	40,100 cup
	130	AR2206H	31.0	2,180	31,000 cup	33.4C	2,325	39,500 cup
	130	AR2208	32.0	2,130	30,600 cup	35.6C	2,340	40,100 cup
	139	AR2219	24.0	1,835	28,500 cup	27.0	2,075	39,400 cup
	139	Bench Mark 2	25.0	1,865	31,000 cup	28.0	2,075	39,600 cup
	139	AR2206H	30.0	2,075	32,900 cup	33.0	2,240	39,800 cup
	139	AR2208	32.0	2,090	30,900 cup	35.5C	2,260	39,100 cup
	145	Bench Mark 2	25.0	1,855	30,200 cup	28.0	2,055	40,100 cup
	145	AR2206H	29.0	2,055	35,100 cup	29.0	2,190	39,900 cup
	145	AR2208	31.0	2,050	33,600 cup	34.2	2,210	39,700 cup
	150	Bench Mark 2	23.0	1,745	30,400 cup	26.0	1,965	39,200 cup
	150	AR2206H	29.0	2,020	33,300 cup	32.0C	2,170	39,600 cup
	150	AR2208	31.0	2,030	32,900 cup	34.2C	2,190	40,000 cup

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# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7-30 Waters 15" Barrel (cont.)								
	168	Bench Mark 2	23.0	1,720	31,600 cup	25.5	1,895	39,800 cup
	168	AR2206H	28.0	1,975	34,400 cup	30.2	2,045	38,600 cup
	168	AR2208	29.0	1,910	33,000 cup	32.0C	2,060	39,200 cup
7mm IHMSA 14" Barrel								
	100	AR2207	31.0	2,295	-	33.0	2,515	-
	100	AR2219	34.0	2,330	-	36.0	2,480	-
	100	AR2206H	36.0	2,320	-	38.0	2,500	-
	100	AR2209	42.0	2,310	-	44.0	2,485	-
	100	AR2213SC	42.0	2,175	-	44.0	2,350	-
	120	AR2207	30.0	2,185	-	32.0	2,370	-
	120	AR2219	33.0	2,130	-	35.0	2,340	-
	120	AR2206H	35.0	2,190	-	37.0	2,390	-
	120	AR2209	42.0	2,260	-	44.0	2,430	-
	120	AR2213SC	42.0	2,140	-	44.0	2,295	-
	130	AR2207	29.0	2,130	-	31.0	2,310	-
	130	AR2219	32.0	2,145	-	34.0	2,300	-
	130	AR2206H	34.0	2,135	-	36.0	2,300	-
	130	AR2209	41.0	2,240	-	43.0	2,390	-
	130	AR2213SC	42.0	2,145	-	44.0	2,265	-
	145	AR2207	28.0	2,010	-	30.0	2,195	-
	145	AR2219	31.0	2,045	-	33.0	2,220	-
	145	AR2206H	33.0	2,035	-	35.0	2,215	-
	145	AR2209	40.0	2,130	-	42.0	2,270	-
	145	AR2213SC	41.0	2,020	-	43.0	2,170	-
	154	AR2207	27.0	1,995	-	29.0	2,130	-
	154	AR2219	30.0	2,005	-	32.0	2,140	-
	154	AR2206H	32.0	2,035	-	34.0	2,165	-
	154	AR2209	39.0	2,070	-	41.0	2,210	-
	154	AR2213SC	41.0	2,090	-	43.0	2,225	-
	160	AR2207	26.5	1,940	-	28.5	2,070	-
	160	AR2219	29.5	1,905	-	31.5	2,070	-
	160	AR2206H	31.5	1,980	-	33.5	2,105	-
	160	AR2209	38.0	2,035	-	40.5	2,165	-
	160	AR2213SC	41.0	2,025	-	43.0	2,155	-
	168	AR2207	26.0	1,905	-	28.0	2,045	-
	168	AR2219	29.0	1,925	-	31.0	2,050	-
	168	AR2206H	31.0	1,965	-	33.0	2,075	-
	168	AR2209	37.0	2,010	-	40.0	2,150	-
	168	AR2213SC	40.0	1,980	-	42.0	2,105	-

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# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm IHMSA 14" Barrel (cont.)								
	175	AR2207	25.0	1,755	-	27.0	1,880	-
	175	AR2219	28.0	1,780	-	30.0	1,905	-
	175	AR2206H	30.0	1,860	-	32.0	1,990	-
	175	AR2209	36.0	1,940	-	39.5	2,065	-
	175	AR2213SC	39.0	1,980	-	41.0	2,095	-
7mm-08 (Silhouette) 15" Barrel								
	100	Bench Mark 2	40.0	2,655	41,400 cup	42.5	2,830	49,600 cup
	100	AR2206H	41.0	2,585	41,000 cup	45.0	2,940	49,900 cup
	100	AR2208	42.0	2,635	40,800 cup	45.7	2,930	49,600 cup
	130	Bench Mark 2	37.0	2,340	41,500 cup	39.8	2,560	50,200 cup
	130	AR2206H	39.5	2,455	43,500 cup	42.0	2,630	50,200 cup
	130	AR2208	40.0	2,460	43,400 cup	43.5	2,710	50,100 cup
	139	Bench Mark 2	37.5	2,350	40,300 cup	40.5	2,520	49,600 cup
	139	AR2206H	39.0	2,370	42,500 cup	42.5	2,575	50,200 cup
	139	AR2208	40.5	2,435	44,700 cup	43.5	2,610	50,000 cup
	139	AR2209	47.0	2,410	40,400 cup	50.0C	2,580	47,500 cup
	150	Bench Mark 2	36.0	2,285	43,300 cup	38.5	2,410	50,200 cup
	150	AR2206H	37.0	2,300	43,300 cup	40.5	2,500	50,000 cup
	150	AR2208	38.5	2,345	42,400 cup	41.3	2,510	50,000 cup
	150	AR2209	45.0	2,335	42,000 cup	48.5C	2,550	50,300 cup
	162	Bench Mark 2	36.0	2,265	43,100 cup	38.0	2,395	49,200 cup
	162	AR2206H	37.0	2,240	43,700 cup	39.5	2,430	49,800 cup
	162	AR2208	38.5	2,310	43,400 cup	41.0	2,470	49,800 cup
	162	AR2209	45.0	2,300	42,600 cup	48.0C	2,470	49,800 cup
	168	Bench Mark 2	36.0	2,210	43,500 cup	38.0	2,345	49,400 cup
	168	AR2206H	36.5	2,210	45,400 cup	39.0	2,345	49,700 cup
	168	AR2208	37.5	2,230	44,600 cup	40.0	2,380	50,100 cup
	168	AR2209	44.5	2,255	42,600 cup	47.2C	2,405	50,000 cup
	175	Bench Mark 2	34.0	2,105	42,400 cup	36.5	2,215	49,700 cup
	175	AR2206H	35.0	2,115	44,500 cup	37.5	2,230	49,700 cup
	175	AR2208	35.0	2,135	43,400 cup	37.5	2,235	49,500 cup
	175	AR2209	42.0	2,150	41,900 cup	45.0C	2,325	49,900 cup
.30 Luger (7.65mm Parabellum) 4 1/2" Barrel								
	85	AP50N	-	-	-	4.0	1,000	-
	95	AP50N	-	-	-	3.8	925	-
.30 M1 Carbine (pistol) 7" Barrel								
	85	AR2205	14.5	1,645	25,200 cup	15.5C	1,745	30,700 cup
	100	AR2205	13.0	1,505	28,900 cup	14.5C	1,620	33,600 cup
	110	AR2205	13.0	1,460	30,100 cup	14.5C	1,600	38,800 cup

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# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.30 Herrett 10" Barrel								
	110	AR2205	-	-	-	18.8	2,035	44,600 cup
	125	AR2205	18.0	1,825	-	20.0	2,005	-
	130	AR2205	-	-	-	18.0	1,885	44,800 cup
	150	AR2205	16.0	1,505	-	18.0	1,750	-
	150	AR2207	19.0	1,625	-	22.0	1,800	-
	150	AR2219	23.0	1,610	-	24.0	1,655	-
	165	AR2207	-	-	-	18.5	1,710	-
.30 Mauser (7.6mm Mauser) 5 1/2" Barrel								
	85	AP50N	-	-	-	4.5	1,225	-
	95	AP50N	-	-	-	3.8	1,100	-
.30-30 Winchester (TCU) 14" Barrel								
	130	Bench Mark 2	27.7	1,905	33,700 cup	29.7	2,020	37,100 cup
	130	AR2206H	31.5	1,985	27,600 cup	35.0	2,195	35,300 cup
	130	AR2208	32.5	1,990	30,200 cup	36.0C	2,240	35,700 cup
	150	Bench Mark 2	27.0	1,815	32,100 cup	29.0	1,945	37,200 cup
	150	AR2206H	30.5	1,900	27,900 cup	34.0	2,115	36,700 cup
	150	AR2208	31.0	1,905	31,100 cup	34.5	2,120	36,200 cup
	170	Bench Mark 2	25.3	1,685	32,200 cup	27.0	1,780	36,100 cup
	170	AR2206H	27.5	1,705	28,200 cup	30.5	1,895	35,200 cup
	170	AR2208	29.5	1,805	30,200 cup	33.0	2,025	36,500 cup
.32 ACP (7.65mm Browning) 4" Barrel								
	71	AS30N	1.5	745	11,700 cup	1.7	830	15,000 cup
	71	AP70N	2.2	780	11,600 cup	2.4	880	14,900 cup
.32 Smith & Wesson 4" Barrel								
	85	AS30N	-	-	-	1.2	600	-
	85	AP50N	-	-	-	1.4	650	-
	85	AP70N	-	-	-	1.8	730	-
.32 Smith & Wesson Long 5.32" Barrel								
	85	AP70N	2.7	705	8,000 cup	3.0	865	12,000 cup
L	90	Trail Boss	1.5	600	5,900 cup	2.9	730	8,100 cup
L	90	AP70N	2.4	775	8,800 cup	2.7	845	10,200 cup
	90	AP70N	2.6	675	7,500 cup	2.9	840	11,200 cup
L	98	AP70N	1.9	675	6,100 cup	2.2	830	11,000 cup
.32 H & R Magnum 5" Barrel								
	85	AP70N	4.0	1,090	18,400 cup	4.3	1,125	19,000 cup
	85	AR2205	8.5	990	19,300 cup	9.5	1,150	21,000 cup
L	90	Trail Boss	2.4	750	10,700 cup	2.8	785	11,300 cup
L	90	AP70N	3.0	820	8,400 cup	3.2	910	11,500 cup
	90	AP70N	3.7	1,010	16,900 cup	4.0	1,070	20,000 cup

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# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.32 H & R Magnum 5" Barrel (cont.)								
	90	AR2205	9.5	1,040	15,000 cup	10.0	1,080	17,000 cup
	100	AP70N	3.3	845	14,300 cup	3.7	975	19,900 cup
	100	AR2205	9.0	980	15,700 cup	10.0	1,060	19,300 cup
.32-20 WCF (Pistol) 5 1/2" Barrel								
L	90	Trail Boss	2.5	785	11,400 cup	2.8	830	13,900 cup
L	115	Trail Boss	2.2	640	11,300 cup	2.5	705	15,300 cup
L	115	AP70N	3.0	810	14,200 cup	3.2	870	16,000 cup
.327 Federal Magnum 5" Barrel								
L	77	AS30N	3.7	1,120	18,000 psi	4.5	1,295	30,900 psi
L	77	Trail Boss	3.0	920	12,300 psi	3.5	1,025	18,700 psi
L	77	AP70N	4.9	1,190	15,700 psi	5.5	1,355	22,800 psi
	85	AP70N	5.3	1,255	32,100 psi	6.0	1,380	38,700 psi
L	90	AS30N	3.5	1,065	26,400 psi	4.2	1,185	37,900 psi
L	90	Trail Boss	2.7	790	11,200 psi	3.2	890	14,800 psi
L	90	AP70N	4.3	1,090	16,600 psi	5.2	1,275	27,800 psi
	90	AP70N	5.3	1,275	26,800 psi	5.7	1,375	40,900 psi
	100	AP70N	4.5	1,085	28,000 psi	5.4	1,250	40,800 psi
	100	AR2205	11.5	1,240	27,100 psi	12.5C	1,320	30,000 psi
L	115	AS30N	3.0	915	26,600 psi	3.7	1,015	39,500 psi
L	115	Trail Boss	2.5	735	15,200 psi	3.0	805	19,600 psi
L	115	AP70N	4.2	1,060	25,200 psi	5.0	1,185	40,200 psi
.380 Auto (9mm Kurz) 3 3/4" Barrel								
	90	AP50N	-	-	-	3.0	800	-
	90	AP70N	-	-	-	3.6	955	-
	90	AP100	-	-	-	5.1	850	-
	100	AP50N	-	-	-	2.8	725	-
	100	AP70N	-	-	-	3.4	890	-
	100	AP100	-	-	-	4.7	775	-
	115	AP50N	-	-	-	2.3	725	-
	115	AP70N	-	-	-	2.6	725	-
	115	AP100	-	-	-	4.4	750	-
9mm Luger (9mm Parabellum) 4" Barrel								
	90	AP70N	5.0	1,170	25,700 cup	5.5	1,265	30,100 cup
	100	AP70N	4.8	1,120	27,200 cup	5.3	1,215	31,500 cup
L	115	AS30N	3.0	955	25,300 cup	3.4	1,040	31,000 cup
	115	AS30N	3.7	1,065	30,900 cup	3.9	1,095	32,600 cup
L	115	AP70N	4.0	1,035	24,400 cup	4.5	1,125	31,300 cup
	115	AP70N	4.5	1,030	27,400 cup	5.0	1,150	31,200 cup
L	120	AP50N	3.0	970	26,500 psi	3.5	1,075	34,750 psi

**C** = Compressed Load: **L** = Lead Projectile

# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
9mm Luger (9mm Parabellum) 4" Barrel (cont.)								
L	120	AP100	5.0	1,000	23,000 psi	6.0	1,180	33,200 psi
	125	AS30N	3.5	1,010	28,000 cup	3.7	1,055	32,500 cup
L	125	AP50N	2.5	835	19,500 psi	3.2	1,000	32,500 psi
L	125	AP70N	3.5	980	27,000 psi	3.8	1,055	33,050 psi
L	125	AP70N	4.3	1,030	26,900 cup	4.9	1,120	30,600 cup
	125	AP100	5.0	890	17,300 psi	6.2	1,135	33,500 psi
L	130	AP70N	4.2	975	27,200 cup	4.7	1,060	30,400 cup
	135	AP50N	2.3	710	13,100 psi	3.3	955	34,050 psi
L	135	AP70N	3.2	800	15,250 psi	4.2	1,050	33,850 psi
L	135	AP100	5.2	970	25,050 psi	6.0	1,100	34,050 psi
	147	AP70N	3.0	805	24,100 cup	3.3	870	31,000 cup
.38 ACP 3.75" Barrel								
L	90	AP70N	-	-	-	3.6	955	-
L	95	AP70N	-	-	-	3.5	900	-
L	100	AP70N	-	-	-	3.4	890	-
.38 Super Auto 5" Barrel (except where noted)								
	90	AP70N	5.7	1,310	26,200 cup	6.3	1,350	31,600 cup
	100	AP70N	5.4	1,235	25,200 cup	6.0	1,330	32,500 cup
L	115	AS30N	4.0	1,045	28,600 cup	4.6	1,105	31,600 cup
	115	AP70N	5.0	1,115	21,900 cup	5.7	1,215	31,900 cup
Note: 4" Barrel L	115	AP70N	4.9	1,140	25,300 cup	5.5	1,225	32,300 cup
	115	AP100	6.0	1,010	19,630 psi	8.0	1,425	34,505 psi
L	125	AS30N	3.9	1,015	27,300 cup	4.4	1,065	31,600 cup
	125	AP70N	4.7	1,110	25,200 cup	5.3	1,170	32,300 cup
L	125	AP70N	4.9	1,070	27,600 cup	5.5	1,180	32,300 cup
	125	AP100	7.0	1,260	23,150 psi	8.0	1,415	36,450 psi
Note: 4" Barrel L	130	AP70N	4.7	1,005	23,300 cup	5.3	1,125	32,200 cup
	135	AS30N	3.5	930	25,600 cup	4.2	1,000	32,500 cup
L	135	AP70N	4.5	1,010	22,800 cup	5.1	1,110	30,900 cup
	135	AP70N	4.8	920	25,900 cup	5.2	990	31,300 cup
Note: 4" Barrel L	135	AP100	6.0	1,055	23,800 psi	7.5	1,325	36,300 psi
	147	AP70N	4.3	960	26,900 cup	4.8	1,020	32,500 cup
L	150	AP70N	4.5	1,040	27,600 cup	5.0	1,110	32,000 cup
	150	AP70N	4.4	985	26,600 cup	4.9	1,060	32,100 cup
.38 Smith & Wesson 4" Barrel								
	110	AP50N	-	-	-	3.5	1,000	-
	110	AP70N	-	-	-	4.1	1,000	-
	125	AP50N	-	-	-	3.4	950	-
	125	AP70N	-	-	-	4.0	950	-

C = Compressed Load: L = Lead Projectile



# PISTOL

CALIBRE		BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
				POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.38 Smith & Wesson 4" Barrel (cont.)									
	L	148	AP50N	-	-	-	2.9	750	-
	L	148	AP70N	-	-	-	3.4	750	-
	L	148	AP100	-	-	-	4.3	750	-
	L	158	AP50N	-	-	-	2.8	700	-
	L	158	AP70N	-	-	-	3.3	700	-
	L	158	AP100	-	-	-	4.1	700	-
.38 Short Colt 7 1/2" Barrel									
	L	93	AS30N	1.8	635	7,000 cup	2.1	780	7,300 cup
	L	93	Trail Boss	1.7	575	-	2.0	675	-
	L	93	AP70N	2.9	635	-	3.4	775	-
	L	135	AS30N	1.8	650	-	2.1	730	-
	L	135	Trail Boss	1.5	490	-	1.7	525	-
	L	135	AP70N	2.4	625	-	2.8	770	-
.38 Long Colt 7 1/2" Barrel									
	L	125	AS30N	2.0	630	-	2.5	765	-
	L	125	Trail Boss	2.0	620	-	2.4	705	-
	L	125	AP70N	3.2	625	-	3.7	770	-
	L	150	AS30N	2.0	625	-	2.6	745	-
	L	150	Trail Boss	1.8	540	-	2.0	575	-
	L	150	AP70N	3.0	630	-	3.5	770	-
.38 Special 7.7" Barrel (4" Vented Barrel where noted)									
	L	90	AS30N	2.5	705	7,900 psi	3.0	940	11,400 psi
	L	90	Trail Boss	3.0	740	7,800 psi	5.0	905	8,100 psi
		110	AS30N	4.0	1,000	14,400 cup	4.2	1,075	17,000 cup
		110	AP70N	5.0	970	11,800 cup	5.6	1,145	16,700 cup
	L	125	AS30N	2.5	810	8,400 cup	3.5	980	16,900 cup
		125	AS30N	3.5	845	12,400 cup	3.9	940	16,100 cup
	L	125	Trail Boss	3.0	755	11,600 psi	5.3	950	13,400 psi
	L	125	AP70N	4.3	870	8,700 cup	4.7	1,035	16,800 cup
		125	AP70N	4.7	920	12,600 cup	5.2	1,020	17,000 cup
	L	135	AS30N	2.6	765	11,400 cup	3.3	910	16,200 cup
Note: 4" Vented	L	135	AP50N	2.8	645	9,450 psi	3.5	845	16,850 psi
Note: 4" Vented	L	138	AP50N	3.0	710	10,100 psi	3.5	835	17,500 psi
	L	135	AP70N	4.1	925	13,400 cup	4.6	1,025	16,900 cup
		140	AS30N	3.0	705	13,400 cup	3.7	870	16,700 cup
		140	AP70N	4.3	830	12,400 cup	4.8	940	15,400 cup
		146	AP70N	4.0	790	11,100 cup	4.5	935	16,100 cup
		146	AR2205	9.6	910	12,600 cup	10.7	980	15,700 cup
	L	148	AS30N	2.3	785	10,900 cup	2.5	835	13,200 cup

**C** = Compressed Load: **L** = Lead Projectile

# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.38 Special 7.7" Barrel (4" Vented Barrel where noted) (cont.)								
Note: 4" Vented	L 148	Trail Boss	2.0	625	15,100 psi	2.3	675	15,700 psi
	L 148	AP50N	2.8	650	10,100 psi	3.2	755	13,000 psi
	L 148	AP70N	2.9	710	7,400 cup	3.8	940	15,600 cup
Note: 4" Vented	L 158	AS30N	2.8	810	12,900 cup	3.1	870	15,100 cup
	L 158	AS30N	3.0	635	13,400 cup	3.1	720	16,600 cup
	L 158	Trail Boss	2.7	660	11,400 psi	4.2	805	13,700 psi
	L 158	AP50N	3.2	660	8,200 psi	3.8	800	16,600 psi
	L 158	AP70N	3.5	755	9,600 cup	4.5	975	16,700 cup
	L 158	AP70N	4.0	680	12,600 cup	4.4	780	16,200 cup
	L 158	AR2205	9.0	885	12,100 cup	10.0	985	15,700 cup
	L 158	AR2205	9.0	770	12,400 cup	10.0	865	15,500 cup
	L 170	AP70N	3.8	745	14,100 cup	4.2	825	16,100 cup
	L 170	AR2205	8.8	760	12,900 cup	9.8	890	15,900 cup
.38 Special + P 7.7" Barrel								
	110	AP70N	-	-	-	6.0	1,205	18,700 cup
	125	AP70N	-	-	-	5.4	1,070	18,900 cup
	140	AP70N	-	-	-	5.1	1,020	19,100 cup
	140	AR2205	-	-	-	12.4	1,120	19,400 cup
	146	AP70N	-	-	-	4.7	990	18,100 cup
	146	AR2205	-	-	-	12.0	1,085	18,400 cup
	158	AP70N	-	-	-	4.7	840	19,200 cup
	158	AR2205	-	-	-	11.0	965	17,600 cup
	170	AP70N	-	-	-	4.3	850	18,600 cup
	170	AR2205	-	-	-	10.6	950	17,600 cup
WARNING : 38 Special + P Loads are for use in modern arms (not aluminium frame) in good condition.								
.357 SIG 4" Barrel								
	90	AP70N	7.2	1,430	27,000 psi	8.1	1,580	36,900 psi
	115	AP70N	6.5	1,270	31,600 psi	7.3	1,375	39,200 psi
	124	AP70N	5.2	1,135	27,500 psi	5.8	1,235	38,500 psi
	135	AP70N	5.8	1,095	29,400 psi	6.5	1,200	37,700 psi
	147	AP70N	5.0	1,025	29,200 psi	5.6	1,110	38,600 psi
.357 Magnum 10" Barrel (4" Vented Barrel where noted)								
	L 90	AS30N	2.7	780	6,000 cup	3.5	1,105	12,500 cup
	L 90	Trail Boss	3.5	970	6,800 cup	5.0	1,120	10,700 cup
	L 110	AP70N	7.5	1,465	35,100 cup	8.0	1,535	40,000 cup
	L 110	AR2205	18.9	1,775	29,600 cup	21.0	1,900	35,500 cup
	L 125	AS30N	3.5	985	11,900 cup	5.3	1,260	33,000 cup
	L 125	Trail Boss	3.5	875	14,900 cup	5.3	1,035	17,900 cup
	L 125	AP70N	4.8	1,045	11,000 cup	6.8	1,400	34,200 cup

C = Compressed Load: L = Lead Projectile

# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.357 Magnum 10" Barrel (4" Vented Barrel where noted) (cont.)								
Note: 4" Vented	125	AP70N	7.1	1,395	34,900 cup	7.6	1,455	39,600 cup
	125	AR2205	18.0	1,690	34,400 cup	20.0	1,840	42,000 cup
	L 135	AS30N	3.4	915	12,200 cup	5.1	1,210	30,200 cup
	L 135	AP50N	4.0	870	16,700 psi	5.2	1,065	31,900 psi
	L 135	AP70N	4.8	985	11,700 cup	6.5	1,315	27,800 cup
Note: 4" Vented	L 138	AP50N	4.0	855	13,650 psi	5.0	1,050	33,650 psi
	140	AP70N	6.5	1,220	34,800 cup	7.0	1,300	40,200 cup
	140	AR2205	16.2	1,540	33,100 cup	18.0	1,685	42,600 cup
	146	AP70N	6.0	1,160	33,500 cup	6.5	1,260	39,900 cup
Note: 4" Vented	146	AR2205	14.5	1,440	34,300 cup	16.0	1,565	42,700 cup
	L 148	AP50N	4.0	835	12,650 psi	5.0	1,005	28,500 psi
	L 148	AP70N	3.5	880	13,700 cup	4.0	990	17,700 cup
Note: 4" Vented	L 150	AP50N	4.0	800	13,270 psi	5.0	960	23,870 psi
	150	AP70N	6.2	1,185	32,800 cup	6.7	1,255	39,900 cup
Note: 4" Vented	150	AR2205	15.0	1,485	33,100 cup	16.5	1,585	36,700 cup
	L 158	AS30N	3.2	865	14,400 cup	4.6	1,080	33,600 cup
	L 158	Trail Boss	3.2	755	16,500 cup	4.2	865	20,400 cup
	L 158	AP50N	5.0	925	21,800 psi	5.8	1,030	33,000 psi
	L 158	AP70N	4.0	890	15,700 cup	6.2	1,250	33,400 cup
	158	AP100	8.7	1,065	28,200 psi	9.0	1,075	34,100 psi
	158	AP70N	5.8	1,025	32,100 cup	6.3	1,135	39,300 cup
Note: 4" Vented	158	AR2205	14.5	1,400	34,600 cup	16.0	1,520	42,600 cup
	170	AR2205	13.0	1,270	32,300 cup	14.5	1,395	41,200 cup
	180	AP100	7.0	770	16,350 psi	8.2	965	34,200 psi
	180	AR2205	12.7	1,245	36,900 cup	13.7	1,310	40,900 cup
.357 Remington Maximum 10" Barrel								
Note: 4" Vented	110	AR2205	26.0	2,120	-	28.0	2,315	-
	125	AR2205	25.0	1,970	-	27.0	2,125	-
	140	AR2205	22.0	1,865	-	24.0	1,985	-
	150	AR2205	21.0	1,790	-	23.0	1,925	-
	160	AR2205	20.5	1,710	-	22.5	1,815	-
	170	AR2205	19.0	1,640	-	21.0	1,748	-
	180	AR2205	18.0	1,550	-	20.0	1,645	-
	200	AR2205	16.0	1,280	-	18.0	1,440	-
.35 Remington 14" Barrel								
Note: 4" Vented	180	AR2207	28.0	1,795	28,600 cup	32.0	1,975	33,000 cup
	180	AR2219	31.0	1,730	28,200 cup	35.0	1,915	33,100 cup
	180	Bench Mark 2	32.5	1,695	29,300 cup	35.5	1,930	32,300 cup
	180	AR2206H	35.0	1,810	27,500 cup	39.0	2,030	33,100 cup

C = Compressed Load: L = Lead Projectile

# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.35 Remington 14" Barrel (cont.)								
	180	AR2208	37.0	1,795	27,200 cup	40.5	2,000	32,500 cup
	200	AR2207	27.0	1,525	26,700 cup	30.5	1,680	31,700 cup
	200	AR2219	31.0	1,565	28,500 cup	33.8	1,670	33,100 cup
	200	Bench Mark 2	32.5	1,550	29,400 cup	35.5	1,765	32,600 cup
	200	AR2206H	35.0	1,615	26,100 cup	38.5	1,770	32,300 cup
	200	AR2208	36.0	1,650	28,800 cup	39.5	1,795	33,300 cup
	220	AR2207	26.0	1,500	30,400 cup	29.0	1,605	33,400 cup
	220	AR2219	29.0	1,455	26,100 cup	32.5	1,610	32,600 cup
	220	Bench Mark 2	31.0	1,485	30,600 cup	34.0	1,695	33,300 cup
	220	AR2206H	33.0	1,590	29,000 cup	36.3	1,730	33,600 cup
	220	AR2208	34.0	1,550	27,800 cup	38.0	1,720	33,300 cup
9 x 18 mm Makarov 4" Barrel								
	90	AP70N	3.5	885	17,900 psi	3.9	1,020	23,000 psi
	95	AP70N	3.6	925	20,100 psi	4.0	1,030	23,800 psi
	100	AP70N	3.6	830	18,600 psi	4.0	995	23,600 psi
.375 Super Mag 8" Barrel								
	220	AR2205	18.0	1,230	-	21.0	1,315	-
.375 JDJ 14" Barrel								
	200	AR2219	45.0	1,810	-	50.0	2,075	-
	200	AR2206H	47.0	1,970	-	52.0	2,145	-
	220	AR2207	39.0	1,905	-	44.0	2,115	-
	220	AR2206H	46.0	1,965	-	51.0	2,215	-
	270	AR2219	40.0	1,610	-	45.0	1,850	-
	270	AR2206H	43.0	1,660	-	48.0	1,955	-
	300	AR2219	37.0	1,540	-	42.0	1,775	-
	300	AR2206H	41.0	1,685	-	46.0	1,950	-
.38/40 Winchester 5 1/2" Barrel								
L	140	AS30N	4.0	780	4,900 psi	5.0	960	10,100 psi
L	180	AS30N	4.7	760	8,700 psi	5.5	890	13,500 psi
L	180	Trail Boss	4.5	695	7,300 psi	5.5	800	9,900 psi
L	180	AP70N	6.9	815	8,200 psi	7.5	955	11,900 psi
.40 Smith & Wesson 4" Barrel								
	135	AS30N	-	-	-	4.5	1,070	32,900 psi
	135	AP70N	-	-	-	7.5	1,325	32,500 psi
WARNING: This data is only for use in firearms with barrels which fully support the cartridge in the chamber.								
L	140	AS30N	-	-	-	4.0	1,035	-
L	140	AP50N	-	-	-	4.5	1,105	-
L	140	AP70N	-	-	-	5.5	1,145	-
L	155	AS30N	-	-	-	4.0	970	-

C = Compressed Load: L = Lead Projectile

# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.40 Smith & Wesson 4" Barrel (cont.)								
	155	AS30N	-	-	-	4.0	940	30,900 psi
WARNING: This data is only for use in firearms with barrels which fully support the cartridge in the chamber.								
L	155	AP50N	-	-	-	4.6	1,015	-
L	155	AP70N	-	-	-	5.6	1,100	-
	155	AP70N	-	-	-	6.6	1,185	33,200 psi
WARNING: This data is only for use in firearms with barrels which fully support the cartridge in the chamber.								
L	155	AP100	-	-	-	8.1	1,180	-
L	170	AS30N	-	-	-	3.4	865	-
L	170	AP50N	-	-	-	3.8	895	-
L	170	AP70N	-	-	-	4.8	1,005	-
L	170	AP100	-	-	-	6.9	1,070	-
	180	AS30N	-	-	-	3.5	850	34,300 psi
WARNING: This data is only for use in firearms with barrels which fully support the cartridge in the chamber.								
L	180	AP70N	-	-	-	4.8	1,010	-
	180	AP70N	-	-	-	5.8	1,045	33,400 psi
WARNING: This data is only for use in firearms with barrels which fully support the cartridge in the chamber.								
L	180	AP100	-	-	-	6.7	1,065	-
	200	AP70N	-	-	-	4.7	905	33,600 psi
WARNING: This data is only for use in firearms with barrels which fully support the cartridge in the chamber.								
10mm Auto 5" Barrel								
	135	AP70N	-	-	-	8.0	1,415	36,100 psi
	155	AP70N	-	-	-	7.5	1,280	35,200 psi
	170	AP70N	-	-	-	6.7	1,190	36,100 psi
	180	AP70N	-	-	-	6.4	1,120	32,200 psi
	200	AP70N	-	-	-	5.9	1,015	36,900 psi
.41 Action Express 5" Barrel								
	150	AP70N	-	-	-	6.5	1,025	-
L	150	AP70N	-	-	-	6.3	1,125	-
	150	AP100	-	-	-	9.2	1,075	-
L	150	AP100	-	-	-	9.0	1,200	-
	170	AP70N	-	-	-	5.1	900	-
L	170	AP70N	-	-	-	4.9	1,000	-
	170	AP100	-	-	-	6.7	925	-
L	170	AP100	-	-	-	6.5	1,050	-
L	200	AP70N	-	-	-	4.4	875	-
L	200	AP100	-	-	-	6.0	925	-
.41 Magnum 10.125" Barrel								
	170	AP70N	8.0	1,230	21,600 cup	10.3	1,490	38,700 cup
	170	AR2205	22.5	1,580	26,100 cup	24.9	1,745	35,600 cup

**C** = Compressed Load: **L** = Lead Projectile

# PISTOL

CALIBRE		BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
				POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.41 Magnum 10.125" Barrel (cont.)									
	L	200	AS30N	4.0	855	13,400 cup	5.2	995	21,200 cup
		210	AP70N	6.9	970	17,700 cup	8.9	1,245	37,700 cup
		210	AR2205	19.3	1,380	28,000 cup	21.5	1,520	38,000 cup
	L	215	AS30N	4.0	825	24,600 cup	5.2	980	26,700 cup
	L	215	Trail Boss	4.5	750	13,000 cup	6.5	910	17,100 cup
		220	AP70N	6.5	920	18,900 cup	8.5	1,180	38,600 cup
		220	AR2205	18.0	1,295	29,700 cup	20.0	1,435	37,500 cup
	L	245	Trail Boss	3.5	685	12,600 cup	6.0	835	16,100 cup
	L	245	AP70N	6.3	1,000	21,200 cup	8.0	1,165	36,000 cup
	L	245	AR2205	18.0	1,270	27,000 cup	20.0	1,445	37,700 cup
	L	250	Trail Boss	3.7	610	14,600 cup	5.0	750	20,300 cup
	L	250	AR2205	17.0	1,300	33,600 cup	18.4	1,400	39,700 cup
	L	255	AR2205	18.8	1,380	33,900 cup	20.0	1,445	38,800 cup
	L	265	AR2205	18.6	1,365	31,900 cup	19.8	1,430	35,700 cup
	.44 Colt 8" Barrel								
	L	165	AS30N	3.0	705	6,600 cup	4.2	945	9,000 cup
	L	165	Trail Boss	3.3	700	5,400 cup	4.5	845	9,700 cup
	L	185	AS30N	3.0	690	5,800 cup	4.2	895	9,600 cup
	L	185	Trail Boss	3.2	645	5,600 cup	4.0	750	9,600 cup
	L	200	AS30N	3.2	710	6,100 cup	3.9	830	10,000 cup
	L	200	Trail Boss	3.0	595	4,800 cup	3.9	710	9,300 cup
	L	200	AP70N	4.8	760	6,100 cup	5.7	930	9,900 cup
	L	240	AS30N	4.0	705	6,800 cup	4.7	820	9,500 cup
	L	240	Trail Boss	3.0	565	6,800 cup	3.4	625	9,000 cup
	L	240	AP70N	4.5	770	6,400 cup	5.2	870	10,400 cup
	.44 Russian 5" Barrel								
		L	165	AS30N	3.0	775	7,300 cup	4.0	980
L		165	Trail Boss	3.3	740	7,600 cup	4.5	880	11,600 cup
L		200	AS30N	3.2	745	8,000 cup	3.7	835	11,100 cup
	L	200	Trail Boss	3.0	645	7,900 cup	3.9	745	10,400 cup
	L	200	AP70N	4.8	815	8,100 cup	5.7	970	11,500 cup
	L	240	AS30N	3.0	710	9,400 cup	3.5	770	10,700 cup
	L	240	Trail Boss	3.0	605	8,800 cup	3.5	660	10,000 cup
	L	240	AP70N	3.8	680	6,400 cup	4.6	840	11,000 cup
	.44/40 Winchester 6" Barrel								
	L	160	AS30N	4.2	745	7,400 psi	5.5	915	12,700 psi
	L	200	AS30N	4.2	650	8,200 psi	5.0	765	11,700 psi
	L	200	Trail Boss	5.5	725	7,800 psi	6.5	825	11,900 psi
	L	200	AP70N	6.6	720	10,000 psi	7.3	780	11,100 psi

C = Compressed Load: L = Lead Projectile

# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.44/40 Winchester 7" Barrel								
L	200	AP50N	5.5	755	4,200 psi	6.5	920	8,900 psi
	200	AR2205	16.0	810	10,100 psi	18.0	910	11,350 psi
	200	AR2205	18.0	885	7,500 psi	20.0	1,030	12,900 psi
	215	AP50N	5.3	765	4,450 psi	6.4	940	13,800 psi
.44 Special 8" Barrel								
L	165	AS30N	3.6	835	6,000 cup	4.6	1,010	13,400 cup
L	165	Trail Boss	4.8	865	10,700 cup	7.0	1,005	12,100 cup
L	165	AP70N	5.5	850	5,700 cup	6.3	1,040	10,900 cup
L	185	AS30N	3.5	810	7,800 cup	4.2	930	13,200 cup
L	185	Trail Boss	4.5	790	10,400 cup	6.6	945	12,600 cup
L	185	AP70N	5.4	825	7,700 cup	6.4	1,030	13,900 cup
L	200	AS30N	3.5	750	7,800 cup	4.5	890	14,000 cup
L	200	Trail Boss	4.3	760	8,700 cup	6.3	885	13,200 cup
L	200	AP70N	5.5	800	8,200 cup	6.5	960	12,900 cup
L	200	AP70N	6.0	835	9,000 cup	6.8	970	12,900 cup
	200	AR2205	13.0	880	8,600 cup	15.0	1,050	13,100 cup
L	200	AR2205	13.0	850	9,100 cup	15.0	1,020	13,100 cup
	240	AS30N	3.2	670	9,000 cup	4.0	770	13,500 cup
L	240	Trail Boss	4.0	675	9,700 cup	5.2	765	11,700 cup
L	240	AP70N	4.9	720	8,000 cup	5.6	875	13,300 cup
L	240	AR2205	11.5	810	9,800 cup	13.2	950	12,600 cup
.44 Remington Magnum 8.275" Barrel (except where noted)								
L	165	AS30N	4.4	910	8,500 cup	5.5	1,065	15,500 cup
L	165	Trail Boss	6.0	960	17,200 psi	8.0	1,085	18,800 psi
L	165	AP70N	6.5	920	7,700 cup	7.2	1,060	11,500 cup
L	180	AP70N	9.0	1,210	19,000 cup	11.3	1,465	36,900 cup
	180	AR2205	27.5	1,575	24,000 cup	29.0	1,710	31,200 cup
L	185	AS30N	4.2	840	8,900 cup	6.0	1,045	18,400 cup
L	185	Trail Boss	6.2	935	19,500 psi	7.8	1,050	21,100 psi
L	185	AP70N	6.4	920	8,400 cup	7.4	1,070	12,600 cup
L	200	AS30N	4.2	785	8,500 cup	6.4	1,030	20,200 cup
L	200	Trail Boss	6.1	890	17,900 psi	7.7	990	20,700 psi
L	200	AP70N	6.8	897	10,500 cup	7.8	1,045	15,400 cup
L	200	AP70N	10.0	1,305	30,700 cup	11.1	1,400	38,300 cup
	200	AR2205	25.0	1,555	29,800 cup	27.0	1,685	37,800 cup
L	210	AP70N	9.0	1,190	26,000 cup	11.0	1,365	37,600 cup
	210	AR2205	25.0	1,460	29,200 cup	27.0	1,625	37,600 cup
L	225	AP70N	8.0	1,040	18,900 cup	10.5	1,290	37,300 cup
	225	AR2205	23.0	1,385	27,400 cup	25.5	1,540	35,700 cup

**C** = Compressed Load: **L** = Lead Projectile

# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS			
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE	
.44 Remington Magnum 8.275" Barrel (except where noted) (cont.)									
L	240	AS30N	4.3	760	14,000 cup	6.2	940	21,800 cup	
	240	Trail Boss	6.0	825	19,100 psi	7.3	920	21,600 psi	
	240	AP50N	5.5	835	15,280 psi	8.5	1,130	31,955 psi	
Note: 8" Barrel	L	240	AP70N	6.5	850	11,700 cup	10.2	1,275	37,500 cup
Note: 8" Barrel	L	240	AP100	11.0	1,110	18,585 psi	13.5	1,370	32,850 psi
Note: 8" Barrel	L	240	AR2205	23.0	1,345	24,140 psi	25.0	1,480	30,010 psi
		240	AP70N	8.0	1,020	21,900 cup	10.2	1,245	38,200 cup
		240	AR2205	22.0	1,300	28,400 cup	24.0	1,460	36,100 cup
		270	AP70N	8.5	1,050	32,100 cup	9.5	1,130	36,700 cup
		270	AR2205	20.5	1,275	28,400 cup	22.5	1,425	37,400 cup
		280	AP70N	8.0	915	27,400 cup	9.7	1,090	38,200 cup
		280	AR2205	20.0	1,215	27,600 cup	22.0	1,375	37,800 cup
		300	AP70N	8.0	970	31,200 cup	9.6	1,115	38,200 cup
		300	AR2205	18.0	1,180	30,600 cup	20.0	1,310	38,600 cup
.44 Magnum (TCU) 14" Barrel									
	180	AP100	-	-	-	19.0	1,750	-	
	180	AR2205	-	-	-	28.5	1,825	-	
	200	AP100	-	-	-	18.5	1,700	-	
	200	AR2205	-	-	-	27.0	1,750	-	
	225	AP100	-	-	-	17.2	1,675	-	
	225	AR2205	-	-	-	25.0	1,675	-	
	240	AP100	-	-	-	16.5	1,625	-	
	240	AR2205	-	-	-	23.5	1,625	-	
	265	AP100	-	-	-	15.5	1,450	-	
	265	AR2205	-	-	-	22.0	1,475	-	
.44 Auto Magnum 6" Barrel									
	180	AR2205	25.0	1,315	-	27.0	1,480	-	
	200	AR2205	25.0	1,380	-	26.0	1,430	-	
	225	AR2205	20.0	1,126	-	22.0	1,270	-	
	240	AR2205	20.0	1,125	-	21.0	1,185	-	
.445 Super Mag 10" Barrel									
	180	AR2205	34.5	1,655	-	37.0	1,900	-	
	200	AR2205	35.0	1,795	-	38.0	1,885	-	
	225	AR2205	34.0	1,710	-	37.5	1,865	-	
.45 Glock Auto Pistol (GAP) 5" Barrel									
L	155	AS30N	3.9	975	18,000 psi	4.4	1,045	22,300 psi	
	185	AS30N	3.7	815	18,800 psi	4.1	880	21,400 psi	
	185	AP70N	5.5	865	17,700 psi	6.3	1,025	22,300 psi	
	200	AS30N	3.3	720	17,300 psi	3.7	795	20,400 psi	

C = Compressed Load: L = Lead Projectile



# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.45 Glock Auto Pistol (GAP) 5" Barrel (cont.)								
	200	AP70N	5.2	840	18,500 psi	5.7	925	20,900 psi
.45 ACP 5" Barrel								
L	150	AP50N	4.5	930	12,940 psi	5.4	1,090	19,170 psi
L	150	AP70N	6.5	1,050	16,120 psi	7.2	1,185	20,645 psi
L	150	AP70N	7.5	950	14,290 psi	8.7	1,160	19,490 psi
L	150	AP100	8.5	970	14,870 psi	9.5	1,165	20,395 psi
L	155	AS30N	4.9	1,040	16,100 cup	5.2	1,080	17,700 cup
L	155	AP50N	5.0	940	9,200 psi	6.2	1,175	20,400 psi
L	155	AP70N	6.5	1,015	13,000 cup	7.0	1,135	16,700 cup
L	175	AP50N	4.5	845	12,015 psi	5.5	1,020	17,935 psi
L	175	AP70N	6.0	880	13,080 psi	7.2	1,105	19,320 psi
L	180	Trail Boss	3.5	665	7,100 cup	5.0	850	13,700 cup
	185	AS30N	4.5	855	14,500 cup	4.9	980	17,400 cup
	185	AP50N	4.5	800	8,000 psi	5.8	1,030	20,100 psi
	185	AP70N	6.0	910	13,100 cup	6.4	980	16,800 cup
	200	AS30N	3.9	715	15,200 cup	4.3	785	17,700 cup
L	200	AS30N	3.6	760	11,800 cup	4.3	890	17,000 cup
L	200	Trail Boss	3.5	650	9,200 cup	5.5	815	16,100 cup
L	200	AP50N	4.0	755	11,050 psi	5.0	960	21,000 psi
L	200	AP70N	5.8	890	13,900 cup	6.3	965	16,800 cup
	200	AP70N	5.8	890	15,100 cup	6.2	950	17,200 cup
	230	AS30N	3.7	670	15,900 cup	4.0	730	17,000 cup
L	230	Trail Boss	3.5	660	11,200 cup	4.5	760	15,100 cup
L	230	AP50N	3.8	720	9,650 psi	4.5	840	18,050 psi
	230	AP70N	5.1	715	11,800 cup	5.6	845	16,800 cup
L	230	AP70N	4.5	705	11,400 cup	5.4	860	16,800 cup
.45 Super 5" Barrel								
	185	AP70N	6.0	910	13,100 cup	7.0	1,065	20,100 cup
	200	AP70N	5.8	890	15,100 cup	6.7	1,015	20,100 cup
	230	AP70N	5.1	715	11,800 cup	6.0	875	19,400 cup
.45 Colt 7.25" Barrel (except where noted)								
L	160	AS30N	5.0	905	7,500 cup	6.4	1,085	13,500 cup
L	160	Trail Boss	7.0	905	8,100 psi	8.5	1,020	10,800 psi
L	160	AP70N	6.5	800	7,400 cup	9.5	1,200	12,900 cup
L	180	AS30N	4.8	840	7,900 cup	6.0	1,015	13,800 cup
L	180	Trail Boss	6.0	820	9,400 psi	7.3	935	12,700 psi
L	180	AP70N	6.5	790	7,100 cup	9.2	1,160	13,900 cup
L	200	AS30N	4.6	780	5,900 cup	5.9	930	13,100 cup
L	200	Trail Boss	5.5	705	8,000 psi	6.5	855	11,000 psi

**C** = Compressed Load: **L** = Lead Projectile

# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.45 Colt 7.25" Barrel (except where noted) (cont.)								
Note: 7" Barrel L	200	AP50N	5.5	750	7,570 psi	7.0	995	12,330 psi
L	200	AP70N	6.4	750	5,700 cup	8.8	1,070	13,600 cup
	200	AP70N	8.0	915	9,600 cup	9.0	1,070	13,900 cup
L	215	AS30N	4.6	755	6,400 cup	5.7	890	13,400 cup
L	215	Trail Boss	5.5	725	8,100 psi	6.5	820	10,300 psi
L	215	AP70N	6.8	775	6,300 cup	8.6	1,000	13,800 cup
L	230	AS30N	4.4	735	7,600 cup	5.4	865	13,900 cup
L	230	Trail Boss	5.5	685	9,100 psi	6.5	805	12,400 psi
L	230	AP70N	6.5	760	7,600 cup	8.1	975	13,800 cup
L	250	AS30N	4.2	715	8,500 cup	5.1	820	13,400 cup
L	250	Trail Boss	4.5	605	8,800 psi	5.8	730	12,700 psi
L	250	AP70N	6.5	740	9,200 cup	7.8	940	13,000 cup
	250	AP70N	7.5	705	10,300 cup	8.5	855	14,000 cup
Note: 7" Barrel L	255	AP50N	6.0	750	7,850 psi	7.0	895	11,470 psi
Note: 7" Barrel L	255	AP70N	8.0	825	10,300 psi	8.5	905	13,100 psi
Note: 7" Barrel L	255	AP100	11.0	835	10,800 psi	12.0	975	16,650 psi
	260	AP70N	7.0	660	9,400 cup	8.0	815	14,000 cup
	300	AP70N	6.6	595	11,200 cup	7.3	700	13,700 cup
.45 Winchester Magnum 5" Barrel								
	230	AR2205	24.0	1,160	27,400 cup	25.0	1,260	29,400 cup
	240	AR2205	24.0	1,165	29,000 cup	25.0	1,265	33,000 cup
	250	AR2205	23.0	1,140	34,000 cup	24.0	1,240	37,100 cup
	260	AR2205	22.0	1,150	32,600 cup	23.0	1,210	35,400 cup
.45 Winchester Magnum (TCU) 14" Barrel								
	185	AP100	-	-	-	17.0	1,650	-
	185	AR2205	-	-	-	26.0	1,600	-
	200	AP100	-	-	-	16.4	1,525	-
	200	AR2205	-	-	-	25.0	1,500	-
	230	AP100	-	-	-	15.6	1,425	-
	230	AR2205	-	-	-	24.0	1,400	-
	250	AP100	-	-	-	14.5	1,325	-
	250	AR2205	-	-	-	23.0	1,325	-
.450 Extreme 8" Barrel								
	240	AR2205	31.0	1,745	40,100 psi	33.0C	1,825	44,700 psi
	260	AR2205	29.5	1,650	39,600 psi	30.5	1,720	44,800 psi
L	265	AR2205	29.0	1,650	39,900 psi	31.0	1,735	44,900 psi
	300	AR2205	25.6	1,465	38,900 psi	27.3	1,565	45,600 psi
.454 Casull Magnum 9.37" Barrel								
	240	AP70N	10.2	1,210	24,400 cup	11.5	1,325	37,500 cup

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# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.454 Casull Magnum 9.37" Barrel (cont.)								
L	240	AR2205	29.0	1,510	22,300 cup	34.0C	1,835	43,300 cup
	250	Trail Boss	6.7	860	14,800 cup	9.0	1,010	19,300 cup
	250	AP70N	10.8	1,220	25,700 cup	12.0	1,290	35,300 cup
	250	AR2205	26.0	1,580	40,800 cup	28.5C	1,685	50,000 cup
	260	AP70N	10.3	1,155	25,500 cup	11.5	1,245	34,900 cup
L	260	AR2205	28.0	1,420	19,000 cup	33.0C	1,765	42,100 cup
	265	Trail Boss	7.0	835	18,800 cup	9.0	985	27,100 cup
L	300	Trail Boss	6.5	765	14,900 cup	8.0	865	23,900 cup
	300	AR2205	27.0	1,540	41,100 cup	31.0C	1,705	52,400 cup
L	325	Trail Boss	5.0	635	13,600 cup	7.0	800	23,700 cup
L	325	AR2205	24.7	1,390	30,300 cup	25.5C	1,455	36,900 cup
	325	AR2205	23.0	1,325	42,600 cup	25.5	1,460	52,600 cup
L	335	Trail Boss	4.8	620	15,500 cup	6.8	780	25,600 cup
L	335	AR2205	23.0	1,305	30,000 cup	25.5	1,460	42,800 cup
L	360	Trail Boss	5.0	615	18,000 cup	6.0	700	27,300 cup
L	360	AR2205	21.0	1,205	31,000 cup	24.0	1,405	48,300 cup
L	395	Trail Boss	4.0	520	19,200 cup	5.0	610	23,600 cup
L	395	AR2205	18.0	1,075	29,600 cup	21.0	1,270	48,300 cup
.460 S&W Magnum 10.74" Barrel								
	200	AR2205	41.0	2,075	35,200 psi	45.5C	2,240	42,200 psi
	225	AR2205	37.0	2,005	42,100 psi	41.0C	2,190	54,400 psi
	240	AR2205	40.0	2,020	43,200 psi	45.0C	2,200	51,800 psi
	250	AR2205	36.0	1,940	45,700 psi	40.0C	2,075	57,200 psi
	260	AR2205	38.0	1,940	45,000 psi	43.0C	2,100	51,300 psi
	265	AR2205	38.0	1,940	44,800 psi	43.5C	2,110	53,100 psi
	300	AR2205	36.0	1,850	49,000 psi	40.0C	1,990	57,000 psi
L	325	Trail Boss	7.0	735	16,500 psi	11.0	915	20,400 psi
L	325	AR2205	34.0	1,790	51,100 psi	38.0	1,900	56,400 psi
	325	AR2205	33.0	1,715	46,700 psi	37.0	1,860	57,300 psi
	325	AR2207	37.0	1,555	36,200 psi	41.0C	1,695	42,500 psi
L	335	Trail Boss	7.0	725	17,700 psi	10.0	890	22,200 psi
L	335	AR2205	33.0	1,720	50,000 psi	37.5	1,850	55,700 psi
L	360	Trail Boss	7.0	710	19,600 psi	9.0	830	24,200 psi
L	360	AR2205	31.0	1,630	49,500 psi	35.5	1,775	56,500 psi
L	360	AR2207	37.0	1,530	38,200 psi	40.0C	1,645	43,200 psi
L	395	Trail Boss	7.0	695	21,100 psi	8.0	755	24,000 psi
L	395	AR2205	28.0	1,515	48,700 psi	32.0	1,650	56,600 psi
L	395	AR2207	35.0	1,485	40,000 psi	38.0C	1,595	46,600 psi

**C** = Compressed Load: **L** = Lead Projectile

# PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
.480 Ruger 7 1/2" Barrel								
	325	AR2205	24.0	1,295	32,600 psi	27.2	1,475	45,600 psi
L	355	Trail Boss	5.0	620	16,700 psi	6.5	740	22,700 psi
L	370	Trail Boss	4.5	595	16,000 psi	5.7	690	20,900 psi
L	370	AR2205	22.5	1,250	32,800 psi	26.0C	1,425	45,900 psi
	400	AR2205	18.0	1,025	31,600 psi	21.0	1,210	46,100 psi
L	405	Trail Boss	3.5	470	15,200 psi	5.5	645	25,700 psi
L	405	AR2205	19.0	1,110	33,200 psi	21.7	1,255	45,500 psi
L	420	Trail Boss	3.5	465	16,200 psi	5.0	595	24,300 psi
L	420	AR2205	19.5	1,125	39,100 psi	21.3C	1,215	46,400 psi
.475 Linebaugh 8" Barrel								
	325	AR2205	27.0	1,290	28,000 psi	31.2	1,545	47,700 psi
L	370	Trail Boss	6.0	660	16,000 psi	8.5	825	27,500 psi
L	370	AR2205	25.5	1,260	31,800 psi	28.5	1,445	47,400 psi
	400	AR2205	21.0	1,050	28,200 psi	25.0	1,300	48,800 psi
L	405	Trail Boss	5.5	605	19,000 psi	7.5	730	29,600 psi
L	405	AR2205	22.0	1,150	32,400 psi	25.0	1,305	46,200 psi
.50 Action Express 6" Barrel								
	325	AR2205	29.0	1,200	-	30.8	1,295	-

C = Compressed Load: L = Lead Projectile

**No data on this page**



## RIFLE DATA

This section shows the maximum load for every configuration of rifle, bullet weight and powder type. It also shows the recommended starting load for some configurations. For your first load, use the starting load; if no starting load is shown, use 10% less than the maximum load. To work up to your safe load, increase the load by no more than 3% at a time.

The rifle loads shown are for jacketed projectiles unless otherwise specified.

**NEVER EXCEED THE MAXIMUM RECOMMENDED LOADS.**

# RIFLE DATA

# RIFLE

## Introduction

The rifle data for this edition was developed through the use of pressure/proof barrels. All loads for standard cartridges adhere to the guidelines provided by the Sporting Arms and Ammunition Manufacturers Institute (SAAMI). For data on obsolete or less popular cartridges where a pressure/proof barrel was not available, maximum loads were obtained by firings in actual firearms while noting visual case head signs such as flat or cratered primers, difficult extraction and measured case heads.

## Velocity

Velocity is measured electronically with the use of two infrared sightscreens. The screens measure the time taken for the projectile to pass through the screens. Screens are set at 20 feet apart with the first screen positioned 5 feet from the muzzle. Velocities for all cartridges listed are limited by the SAAMI maximum allowable pressures. The average change in velocity from the listed pressure barrel data is approximately 35 to 50 fps for each inch of barrel length.

## Pressure

Where listed, pressures are in pounds per square inch (psi). If no pressure is listed then the pressure was measured mechanically with copper units of pressure (cup). These pressures have not been listed to avoid confusion between the two pressure units.

Pressure data listed in psi was measured electronically with the use of a pressure transducer. The pressure transducer rests against the cartridge when loaded into the chamber. When the cartridge is fired, the gases cause the brass to expand against the pressure transducer and the results are measured.

## Loading Instructions

When working up a load, the reloader should always begin with the starting load, advance in small increments, watch for pressure signs and begin again if changing components. Generally, the best powder choice is the powder that most nearly fills the case for the intended velocity. Most cartridges have only a certain number of appropriate powders. Those cartridges that are more versatile can use a wider range of propellant burning rates. For others, lesser numbers of propellants will give optimum results.

Most often, slower burning powders are more suitable with heavy bullets, while faster powders are better with lighter projectiles. Most reloaders like a powder that delivers near maximum or maximum results throughout the range of projectiles, but that is not always obtainable, since some cartridges (like the 30-06) have too wide a range of projectiles for any one burning rate to be ideal.

The handloader that seriously loads for any given cartridge will choose different components (primer, powders, projectiles, cases) in varying combinations to obtain the best overall performance and accuracy. The handloader reloads to save money, but also reloads to improve accuracy and performance, creating special loads that cannot be found on the dealers' shelves.

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
17 Hornet (Ackley) 24" Barrel								
	20	AR2205	8.5	3,080	-	9.2	3,240	-
	20	AR2207	11.5	3,245	-	12.5C	3,515	-
	25	AR2207	10.9	3,015	-	11.6	3,175	-
	25	AR2219	12.0	2,895	-	13.0C	3,155	-
	30	AR2207	10.0	2,710	-	10.7	2,925	-
	30	AR2219	11.5	2,745	-	12.2	2,985	-
	30	Bench Mark 2	12.2	2,900	-	13.0C	2,975	-
17 Bee (Ackley) 22" Barrel								
	25	AR2205	10.0	2,910	-	11.0	3,130	-
	25	AR2207	12.5	2,975	-	13.5	3,365	-
17 Mach IV 24" Barrel								
	25	AR2207	15.0	3,240	-	16.0	3,575	-
	25	AR2206	16.5	3,300	-	18.5	3,700	-
17 Remington Fireball 24" Barrel								
	20	AR2207	16.0	3,810	-	17.3	4,040	-
	20	AR2219	18.0	3,650	-	19.5C	4,020	-
	20	Bench Mark 2	18.5	3,760	-	20.0C	4,015	-
	25	AR2207	15.4	3,550	-	17.0	3,790	-
	25	AR2219	17.0	3,505	-	18.3	3,705	-
	25	Bench Mark 2	17.5	3,550	-	19.0	3,745	-
	30	AR2207	14.9	3,300	-	15.9	3,480	-
	30	AR2219	16.5	3,295	-	18.0	3,535	-
	30	Bench Mark 2	17.0	3,305	-	18.7C	3,570	-
17 - 222 22" Barrel								
	25	AR2207	16.2	3,450	-	17.2	3,600	-
	25	AR2206	19.0	3,415	-	20.0	3,625	-
	25	AR2206H	19.5	3,440	-	20.5	3,645	-
	25	AR2208	19.5	3,400	-	21.0	3,600	-
17 Remington 24" Barrel								
	20	AR2219	21.0	3,965	-	23.2	4,290	-
	20	Bench Mark 2	22.0	3,985	-	24.5	4,340	-
	20	AR2206H	23.0	4,035	-	25.5C	4,435	-
	20	AR2208	23.5	3,935	-	25.5C	4,210	-
	25	AR2207	16.5	3,480	-	18.5	3,900	-
	25	Bench Mark 1	18.5	3,580	-	20.5	3,965	-
	25	AR2219	19.5	3,655	-	21.8	3,920	-
	25	Bench Mark 2	21.5	3,790	-	23.3	4,040	-
	25	AR2206	20.0	3,635	-	22.0	4,000	-
	25	AR2206H	21.0	3,760	-	23.0	4,035	-

C = Compressed Load: L = Lead Projectile



# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
17 Remington 24" Barrel (cont.)								
	25	AR2208	22.0	3,760	-	24.5	4,125	-
	25	AR2209	23.0	3,395	-	25.5C	3,765	-
	30	AR2219	18.0	3,310	-	20.0	3,595	-
	30	Bench Mark 2	20.0	3,445	-	22.0	3,710	-
	30	AR2206H	20.0	3,495	-	22.0	3,695	-
	30	AR2208	20.0	3,405	-	22.5	3,740	-
17-223 22" Barrel								
	25	AR2206	20.0	3,600	-	22.2	3,950	-
	25	AR2206H	21.0	3,680	-	23.0	3,960	-
	25	AR2208	21.5	3,600	-	23.5	3,995	-
20 Tactical 24" Barrel								
	33	AR2207	20.0	3,435	40,500 psi	22.5	3,845	55,100 psi
	33	AR2219	23.0	3,530	42,900 psi	25.5	3,855	54,900 psi
	33	Bench Mark 2	23.0	3,505	41,900 psi	25.5	3,845	54,500 psi
	33	AR2206H	25.0	3,575	42,700 psi	27.0	3,800	50,600 psi
	33	AR2208	25.0	3,345	37,900 psi	27.0	3,660	49,600 psi
	36	AR2207	20.0	3,435	45,000 psi	22.0	3,675	55,000 psi
	36	AR2219	22.0	3,435	44,900 psi	24.2	3,685	54,500 psi
	36	Bench Mark 2	22.0	3,360	42,000 psi	24.5	3,680	54,400 psi
	36	AR2206H	24.0	3,455	42,900 psi	26.5C	3,745	54,900 psi
	36	AR2208	25.0	3,455	45,200 psi	27.0C	3,680	54,300 psi
204 Ruger 24" Barrel								
	32	AR2219	25.5	3,825	48,300 psi	27.5	4,030	56,400 psi
	32	Bench Mark 2	26.0	3,770	45,500 psi	28.0	4,050	57,100 psi
	32	AR2206H	27.0	3,670	40,500 psi	29.0C	3,980	51,100 psi
	32	AR2208	27.0	3,555	38,300 psi	29.0C	3,800	47,400 psi
	35	AR2219	24.0	3,585	45,600 psi	26.3	3,830	55,400 psi
	35	Bench Mark 2	25.0	3,590	44,100 psi	26.6	3,865	56,600 psi
	35	AR2206H	26.0	3,575	42,200 psi	28.2C	3,910	55,700 psi
	35	AR2208	28.0	3,705	48,300 psi	29.0C	3,810	53,100 psi
	40	AR2219	23.0	3,320	41,500 psi	25.1	3,640	55,900 psi
	40	Bench Mark 2	24.0	3,420	45,200 psi	25.7	3,645	55,400 psi
	40	AR2206H	26.0	3,500	45,500 psi	27.7C	3,740	56,000 psi
	40	AR2208	26.0	3,395	44,100 psi	28.1C	3,650	55,100 psi
	50	AR2219	22.0	3,105	48,300 psi	23.5	3,250	55,100 psi
	50	Bench Mark 2	22.5	3,110	47,800 psi	24.0	3,255	54,300 psi
	50	AR2206H	24.0	3,165	46,900 psi	25.7	3,355	56,000 psi
	50	AR2208	24.0	3,070	44,900 psi	26.0	3,290	55,200 psi

**C** = Compressed Load: **L** = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
22 Hornet 24" Barrel								
	35	AR2205	10.5	2,630	-	11.6C	2,895	-
	35	AR2207	10.5	2,225	-	11.5C	2,420	-
	40	AR2205	9.0	2,420	-	10.2	2,570	-
	40	AR2207	10.5	2,255	-	11.5C	2,490	-
	45	AR2205	8.5	2,200	-	9.8	2,345	-
	45	AR2207	10.5	2,215	-	11.5C	2,390	-
	50	AR2205	8.4	2,130	-	9.4	2,255	-
	50	AR2207	10.5	2,100	-	11.5C	2,295	-
	53	AR2205	8.0	1,885	-	8.7	2,060	-
	53	AR2207	10.0	2,025	-	11.0C	2,165	-
	55	AR2205	8.0	1,915	-	9.0	2,095	-
	55	AR2207	10.0	1,955	-	11.5C	2,275	-
22 K Hornet 24" Barrel								
	35	AR2205	11.0	2,810	-	12.3	3,025	-
	40	AR2205	11.0	2,685	-	12.2C	2,870	-
	45	AR2205	10.5	2,525	-	11.3	2,635	-
	50	AR2205	10.0	2,400	-	11.0	2,540	-
	50	AR2207	11.5	2,245	-	12.5C	2,460	-
	53	AR2205	9.5	2,210	-	10.5	2,365	-
	53	AR2207	11.2	2,195	-	12.5C	2,385	-
	55	AR2205	10.0	2,315	-	11.0	2,445	-
	55	AR2207	11.5	2,225	-	12.5C	2,385	-
218 Bee 24" Barrel								
	35	AR2205	11.0	2,655	-	13.3	3,035	-
	40	AR2205	11.0	2,610	-	12.8	2,865	-
	46	AR2205	9.0	2,145	-	10.7	2,425	-
	46	AR2207	13.5	2,415	-	15.0	2,710	-
	50	AR2205	9.5	2,195	-	10.8	2,420	-
	50	AR2207	13.5	2,420	-	14.9C	2,655	-
221 Fireball 24" Barrel								
	35	AR2205	14.8	3,110	-	16.5	3,405	-
	35	AR2207	18.0	3,055	-	20.0	3,425	-
	40	AR2205	14.5	3,040	-	16.0	3,250	-
	40	AR2207	17.0	2,850	-	19.0	3,195	-
	40	AR2219	19.7	2,880	-	21.0	3,090	-
	45	AR2205	13.8	2,850	-	15.3	3,015	-
	45	AR2207	17.6	2,935	-	19.5C	3,185	-
	45	AR2219	19.0	2,760	-	20.5C	2,980	-
	50	AR2205	13.0	2,630	-	14.8	2,900	-

C = Compressed Load: L = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
221 Fireball 24" Barrel (cont.)								
	50	AR2207	16.5	2,660	-	18.5C	2,995	-
	50	AR2219	19.0	2,705	-	21.0C	2,970	-
	52	AR2205	13.0	2,610	-	14.5	2,800	-
	52	AR2207	16.7	2,690	-	18.5C	2,970	-
	52	AR2219	18.9	2,695	-	21.0C	2,990	-
	55	AR2205	13.5	2,645	-	14.5	2,740	-
	55	AR2207	16.7	2,655	-	18.5	2,920	-
	55	AR2219	18.9	2,680	-	21.0C	2,945	-
222 Remington 24" Barrel								
	35	AR2205	15.0	3,095	-	17.2	3,345	-
	35	AR2207	20.5	3,365	-	22.0	3,590	-
	35	AR2219	23.5	3,315	-	25.2C	3,590	-
	35	Bench Mark 2	23.5	3,135	-	25.0	3,370	-
	40	AR2205	12.0	2,545	-	15.0	3,040	-
	40	AR2207	19.5	3,200	-	21.4	3,480	-
	40	Bench Mark 1	20.5	3,120	-	22.5	3,425	-
	40	AR2219	20.7	2,965	-	23.0	3,315	-
	40	Bench Mark 2	23.5	3,110	-	25.0	3,305	-
	40	AR2206	21.5	2,835	-	24.0C	3,165	-
	40	AR2206H	20.0	2,570	-	24.0C	3,135	-
	40	AR2208	22.5	2,875	-	25.0C	3,195	-
	45	AR2205	11.0	2,260	-	14.5	2,865	-
	45	AR2207	18.9	3,010	-	21.0	3,315	-
	45	Bench Mark 1	20.0	2,915	-	22.0	3,205	-
	45	AR2219	20.5	2,915	-	22.5	3,175	-
	45	Bench Mark 2	23.0	3,090	-	24.5	3,290	-
	45	AR2206H	20.0	2,510	-	23.8C	3,080	-
	50	AR2205	10.5	2,125	-	13.8	2,670	-
	50	AR2207	18.5	2,890	-	20.5	3,160	-
	50	Bench Mark 1	20.0	2,870	-	22.0	3,155	-
	50	AR2219	20.2	2,810	-	22.2	3,080	-
	50	Bench Mark 2	22.5	2,995	-	24.0	3,170	-
	50	AR2206	20.0	2,610	-	23.5	3,065	-
	50	AR2206H	20.0	2,465	-	23.8C	3,025	-
	50	AR2208	23.0	2,885	-	25.0C	3,115	-
	53	AR2205	15.5	2,725	-	17.0	2,990	-
	53	AR2207	17.5	2,800	-	19.5	3,040	-
	53	Bench Mark 1	19.1	2,690	-	21.3	3,000	-
	53	AR2219	19.3	2,725	-	21.5	3,005	-

**C** = Compressed Load: **L** = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
222 Remington 24" Barrel (cont.)								
	53	Bench Mark 2	21.5	2,850	-	23.0	3,065	-
	53	AR2206H	20.0	2,585	-	23.5C	3,045	-
	53	AR2208	23.0	2,865	-	25.0C	3,100	-
	55	AR2207	17.5	2,735	-	19.5	3,020	-
	55	Bench Mark 1	19.0	2,675	-	21.0	2,955	-
	55	AR2219	19.0	2,655	-	21.2	2,955	-
	55	Bench Mark 2	21.5	2,845	-	23.2	3,050	-
	55	AR2206	21.5	2,770	-	23.5C	3,025	-
	55	AR2206H	20.0	2,570	-	23.5C	3,025	-
	55	AR2208	23.0	2,860	-	25.0C	3,095	-
	60	AR2207	16.9	2,630	-	18.0	2,770	-
	60	AR2219	19.0	2,590	-	20.7	2,820	-
	60	Bench Mark 2	19.7	2,625	-	21.0	2,805	-
	60	AR2208	22.0	2,735	-	23.5C	2,905	-
	63	AR2207	16.9	2,595	-	18.8	2,795	-
	63	Bench Mark 1	18.5	2,520	-	20.3	2,765	-
	63	AR2219	18.6	2,530	-	20.7	2,780	-
	63	Bench Mark 2	21.0	2,730	-	22.5	2,905	-
	63	AR2206	20.5	2,605	-	23.0	2,925	-
	63	AR2206H	20.0	2,535	-	23.5C	2,965	-
	63	AR2208	22.0	2,720	-	24.0C	2,935	-
223 Remington (5.56mm x 45) 24" Barrel								
	40	AR2205	18.0	3,190	-	20.0	3,545	-
	40	AR2207	20.5	3,145	-	22.5	3,600	-
	40	Bench Mark 1	22.5	3,180	-	25.2	3,560	-
	40	AR2219	23.5	3,375	-	25.5	3,575	-
	40	Bench Mark 2	25.3	3,405	-	27.3	3,665	-
	40	AR2206	24.8	3,240	-	27.5C	3,590	-
	40	AR2206H	25.0	3,205	-	27.5C	3,575	-
	40	AR2208	25.0	3,310	-	28.0C	3,675	-
	50	AR2207	19.5	3,025	-	21.5	3,225	-
	50	Bench Mark 1	21.5	2,980	-	23.8	3,300	-
	50	AR2219	22.0	3,020	-	24.0	3,300	-
	50	Bench Mark 2	24.0	3,140	-	26.5	3,395	-
	50	AR2206	24.0	3,130	-	26.5C	3,455	-
	50	AR2206H	25.0	3,200	-	27.5C	3,470	-
	50	AR2208	26.5	3,240	-	27.5C	3,385	-
	53	AR2207	19.5	2,985	-	21.5	3,190	-
	53	Bench Mark 1	21.0	2,890	-	23.0	3,165	-

C = Compressed Load: L = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
223 Remington (5.56mm x 45) 24" Barrel (cont.)								
	53	AR2219	21.5	2,910	-	23.5	3,185	-
	53	Bench Mark 2	24.0	3,100	-	26.0	3,310	-
	53	AR2206	24.0	3,050	-	26.5	3,365	-
	53	AR2206H	25.0	3,165	-	27.0C	3,385	-
	53	AR2208	24.0	3,025	-	27.0C	3,390	-
	55	AS30N	-	0	-	3.2	1,060	-
	55	AR2207	19.0	2,840	-	21.0	3,150	-
	55	Bench Mark 1	20.5	2,715	-	22.6	2,995	-
	55	AR2219	21.0	2,840	-	23.0	3,105	-
	55	Bench Mark 2	24.0	3,115	-	25.6	3,265	-
	55	AR2206	24.5	3,130	-	25.5	3,260	-
	55	AR2206H	25.0	3,175	-	26.0	3,315	-
	55	AR2208	25.5	3,175	-	27.5C	3,385	-
	60	AR2207	18.0	2,745	-	20.0	2,955	-
	60	AR2219	22.0	2,875	-	23.5	3,065	-
	60	Bench Mark 2	23.0	2,915	-	24.6	3,085	-
	60	AR2206H	24.0	2,920	-	26.0C	3,175	-
	60	AR2208	25.0	2,925	-	27.0C	3,160	-
	62	Bench Mark 2	21.2	2,705	-	23.5	3,000	-
	62	AR2206	22.0	2,760	-	24.5	3,075	-
	62	AR2208	22.5	2,750	-	25.0	3,055	-
	63	AR2207	18.0	2,680	-	20.0	2,845	-
	63	AR2219	20.0	2,670	-	22.0	2,860	-
	63	Bench Mark 2	22.0	2,845	-	24.2	3,065	-
	63	AR2206H	23.5	2,830	-	25.5	3,080	-
	63	AR2208	24.5	3,000	-	26.4	3,200	-
	69	AR2219	21.0	2,745	-	23.0	2,930	-
	69	Bench Mark 2	21.5	2,770	-	23.5	2,970	-
	69	AR2206	22.0	2,675	-	24.0	2,920	-
	69	AR2206H	24.0	2,870	-	26.0C	3,070	-
	69	AR2208	24.0	2,785	-	26.0C	3,010	-
	70	AR2219	19.0	2,515	-	23.0	2,960	-
	70	Bench Mark 2	20.5	2,665	-	22.8	2,870	-
	70	AR2206H	23.0	2,780	-	25.0	3,000	-
	70	AR2208	23.5	2,825	-	26.0	3,025	-
	75	AR2219	20.0	2,595	-	22.0	2,785	-
	75	Bench Mark 2	21.5	2,610	-	23.5	2,830	-
	75	AR2206H	22.5	2,695	-	24.5	2,905	-
	75	AR2208	22.5	2,690	-	25.0	2,910	-

**C** = Compressed Load: **L** = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
223 Remington (5.56mm x 45) 24" Barrel (cont.)								
	77	AR2219	20.0	2,580	-	21.8	2,720	-
	77	Bench Mark 2	20.5	2,525	-	22.8	2,765	-
	77	AR2206H	20.0	2,475	-	22.6C	2,730	-
	77	AR2208	21.0	2,530	-	23.7C	2,740	-
	80	AR2219	20.0	2,545	-	22.0	2,745	-
	80	Bench Mark 2	20.5	2,525	-	22.5	2,700	-
	80	AR2206	20.5	2,500	-	22.5	2,710	-
	80	AR2206H	21.5	2,580	-	24.0	2,825	-
	80	AR2208	22.0	2,545	-	25.0	2,870	-
	90	AR2206H	20.0	2,350	-	21.5	2,480	-
	90	AR2208	21.0	2,330	-	22.3C	2,450	-
222 Remington Magnum 26" Barrel								
	40	AR2205	15.5	2,715	-	17.0	3,060	-
	40	AR2207	23.0	3,590	-	24.5	3,760	-
	40	AR2219	25.0	3,320	-	27.0	3,620	-
	40	AR2206H	26.5	3,365	-	29.0	3,490	-
	45	AR2207	22.0	3,390	-	24.0	3,640	-
	45	AR2219	24.5	3,160	-	26.5	3,530	-
	45	AR2206H	26.5	3,315	-	29.0	3,440	-
	50	AR2207	21.5	3,150	-	23.5	3,380	-
	50	AR2219	24.0	3,130	-	26.0	3,385	-
	50	AR2206H	26.0	3,165	-	28.5	3,305	-
	53	AR2207	21.0	3,075	-	23.0	3,280	-
	53	AR2219	24.0	3,015	-	25.0	3,285	-
	53	AR2206H	25.5	3,135	-	28.0	3,270	-
	55	AR2207	21.0	3,025	-	23.0	3,220	-
	55	AR2219	22.5	2,865	-	24.5	3,190	-
	55	AR2206H	25.5	3,120	-	28.0	3,260	-
	63	AR2207	18.5	2,845	-	20.5	3,020	-
	63	AR2219	21.5	2,765	-	23.5	2,935	-
	63	AR2206H	24.5	2,870	-	26.5	3,045	-
22 Waldog 24" Barrel								
	52-53	AR2207	-	0	-	21.0	3,000	-
	52-53	AR2206	-	0	-	23.5	3,000	-
	52-53	AR2208	-	0	-	24.5	3,000	-
22 PPC 24" Barrel								
	40	Bench Mark 2	27.0	3,350	-	30.0	3,675	-
	40	AR2208	27.5	3,315	-	29.5	3,560	-
	50	AR2207	21.6	2,995	-	24.0	3,325	-

C = Compressed Load: L = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
22 PPC 24" Barrel (cont.)								
	50	Bench Mark 1	23.5	3,030	-	26.0	3,350	-
	50	AR2219	25.0	3,205	-	26.0	3,385	-
	50	Bench Mark 2	27.0	3,205	-	29.0	3,430	-
	50	AR2206	24.8	3,020	-	27.5	3,350	-
	50	AR2206H	26.0	2,990	-	28.0	3,350	-
	50	AR2208	27.5	3,205	-	29.5C	3,410	-
	53	AR2207	21.5	3,020	-	23.5	3,300	-
	53	Bench Mark 1	23.5	3,050	-	25.5	3,310	-
	53	AR2219	24.0	3,045	-	26.0	3,335	-
	53	Bench Mark 2	26.5	3,140	-	28.5	3,370	-
	53	AR2206H	26.0	3,080	-	28.0	3,320	-
	53	AR2208	26.5	3,180	-	28.5	3,365	-
	55	AR2219	24.0	3,050	-	26.0	3,305	-
	55	Bench Mark 2	26.0	3,080	-	28.2	3,310	-
	55	AR2206H	26.0	3,045	-	28.0	3,345	-
	55	AR2208	26.5	3,145	-	28.5	3,320	-
22 BR Remington 24" Barrel								
	40	AR2207	25.5	3,645	-	27.6	3,860	-
	40	AR2219	28.0	3,560	-	30.0	3,795	-
	40	Bench Mark 2	30.0	3,540	-	32.0	3,815	-
	40	AR2208	31.5	3,560	-	33.5	3,790	-
	40	AR2206H	31.0	3,595	-	32.8	3,835	-
	45	AR2219	29.0	3,410	-	31.5	3,740	-
	45	Bench Mark 2	29.5	3,485	-	31.6	3,700	-
	45	AR2206H	30.0	3,430	-	32.5	3,770	-
	45	AR2208	31.5	3,500	-	33.5	3,695	-
	50	AR2219	28.0	3,290	-	30.5	3,640	-
	50	Bench Mark 2	29.5	3,400	-	31.5	3,620	-
	50	AR2206H	29.5	3,405	-	32.0	3,605	-
	50	AR2208	31.5	3,425	-	33.5	3,625	-
	53	AR2219	28.0	3,270	-	30.0	3,545	-
	53	Bench Mark 2	28.5	3,305	-	30.5	3,525	-
	53	AR2206H	29.5	3,375	-	31.5	3,565	-
	53	AR2208	31.0	3,425	-	33.0	3,640	-
	55	AR2219	28.0	3,220	-	30.0	3,440	-
	55	Bench Mark 2	28.5	3,300	-	30.5	3,470	-
	55	AR2206H	29.0	3,210	-	31.0	3,480	-
	55	AR2208	30.0	3,310	-	32.5	3,530	-
	63	AR2219	24.0	2,960	-	26.5	3,120	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
22 BR Remington 24" Barrel (cont.)								
	63	Bench Mark 2	27.0	3,090	-	29.0	3,270	-
	63	AR2206H	26.0	2,995	-	28.0	3,145	-
	63	AR2208	28.5	3,135	-	30.5	3,310	-
	70	AR2219	22.0	2,695	-	24.0	2,890	-
	70	Bench Mark 2	26.0	2,920	-	28.0	3,095	-
	70	AR2206H	23.0	2,710	-	24.5	2,845	-
	70	AR2208	26.0	2,860	-	28.0	3,035	-
5.6mm x 50 Magnum 24" Barrel								
	40	AR2206	-	-	-	29.0	3,630	-
	45	AR2206	-	-	-	28.5	3,550	-
	45	AR2208	-	-	-	30.0	3,550	-
	50	AR2206	-	-	-	28.0	3,500	-
	50	AR2208	-	-	-	29.5	3,500	-
	55	AR2206	-	-	-	27.0	3,300	-
	55	AR2208	-	-	-	28.5	3,300	-
	60	AR2208	-	-	-	27.5	3,250	-
	70	AR2208	-	-	-	26.5	3,100	-
219 Wasp 28" Barrel								
	40	AR2206H	-	-	-	28.0	3,315	-
	55	AR2206H	-	-	-	28.0	3,500	-
219 Zipper 24" Barrel								
	45	AR2207	-	-	-	22.0	3,200	-
	45	AR2206	-	-	-	25.0	3,200	-
	45	AR2208	-	-	-	26.0	3,200	-
	50	AR2207	-	-	-	21.0	3,000	-
	50	AR2206	-	-	-	24.0	3,000	-
	50	AR2208	-	-	-	25.0	3,000	-
	52-53	AR2207	-	-	-	20.5	2,900	-
	52-53	AR2206	-	-	-	23.5	2,900	-
	52-53	AR2208	-	-	-	24.5	2,900	-
	55	AR2207	-	-	-	20.0	2,800	-
	55	AR2206	-	-	-	23.0	2,800	-
	55	AR2208	-	-	-	24.0	2,800	-
225 Winchester 26" Barrel								
	40	AR2219	28.0	3,630	-	31.0	3,895	-
	40	AR2206	30.0	3,435	-	33.0	3,780	-
	40	AR2206H	31.5	3,585	-	34.0	3,810	-
	40	AR2208	31.5	3,445	-	35.0	3,825	-
	45	AR2219	27.0	3,305	-	30.0	3,685	-

C = Compressed Load: L = Lead Projectile



# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
225 Winchester 26" Barrel (cont.)								
	45	AR2206	29.0	3,345	-	32.0	3,690	-
	45	AR2206H	31.0	3,505	-	33.5	3,735	-
	45	AR2208	31.0	3,415	-	34.0	3,745	-
	50	AR2219	26.0	3,165	-	29.0	3,400	-
	50	Bench Mark 2	27.0	3,305	-	30.0	3,670	-
	50	AR2206	29.0	3,340	-	32.0	3,685	-
	50	AR2206H	31.0	3,330	-	34.0	3,720	-
	50	AR2208	31.0	3,435	-	33.5	3,710	-
	52	AR2219	26.0	3,130	-	28.5	3,335	-
	52	Bench Mark 2	26.0	3,060	-	29.0	3,415	-
	52	AR2206	28.0	3,110	-	31.0	3,445	-
	52	AR2206H	29.5	3,240	-	32.0	3,465	-
	52	AR2208	30.0	3,155	-	33.0	3,470	-
	55	AR2219	25.5	3,050	-	28.0	3,285	-
	55	Bench Mark 2	26.0	3,090	-	28.5	3,390	-
	55	AR2206	27.5	3,070	-	30.5	3,405	-
	55	AR2206H	29.5	3,160	-	32.0	3,475	-
	55	AR2208	30.0	3,195	-	32.5	3,460	-
	55	AR2209	35.0	2,970	-	37.0	3,190	-
	60	Bench Mark 2	26.0	3,125	-	28.0	3,365	-
	60	AR2206	27.0	3,040	-	30.0	3,380	-
	60	AR2206H	29.0	3,125	-	32.0	3,395	-
	60	AR2208	30.0	3,190	-	32.0	3,400	-
	60	AR2209	34.0	2,910	-	36.0	3,120	-
	70	Bench Mark 2	23.5	2,920	-	26.0	3,230	-
	70	AR2206	25.5	2,965	-	28.0	3,255	-
	70	AR2208	26.5	2,890	-	29.5	3,215	-
	70	AR2209	32.0	2,695	-	35.0	2,950	-
224 Weatherby Magnum 23" Barrel								
	45	AR2206H	29.5	3,420	-	32.0	3,860	-
	45	AR2208	29.0	3,250	-	31.5	3,650	-
	50	AR2206	28.5	3,215	-	30.5	3,580	-
	50	AR2206H	28.5	3,200	-	31.0	3,650	-
	50	AR2208	28.5	3,100	-	31.5	3,600	-
	53	AR2206	27.5	3,050	-	30.0	3,540	-
	53	AR2206H	27.5	3,030	-	30.0	3,520	-
	53	AR2208	28.0	3,000	-	31.0	3,500	-
	55	AR2206	27.0	2,940	-	29.5	3,450	-
	55	AR2206H	27.5	2,970	-	30.0	3,505	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
224 Weatherby Magnum 23" Barrel (cont.)								
	55	AR2208	27.5	2,900	-	30.5	3,400	-
	55	AR2209	32.0	2,880	-	34.0	3,240	-
	55	AR2213SC	31.5	2,835	-	34.0	3,200	-
	60	AR2206	26.0	2,800	-	28.0	3,215	-
	60	AR2206H	26.0	2,790	-	28.0	3,205	-
	60	AR2208	27.0	2,800	-	29.0	3,200	-
	60	AR2209	31.0	2,830	-	34	3,240	-
	60	AR2213SC	31.0	2,780	-	33.5	3,040	-
	70	AR2206	25.0	2,650	-	27.0	2,900	-
	70	AR2208	26.0	2,650	-	28.5	2,900	-
	70	AR2209	30.0	2,645	-	32.0	2,780	-
	70	AR2213SC	30.0	2,395	-	32.0	2,485	-
22-250 Remington 24" Barrel								
	40	Bench Mark 2	34.0	3,835	-	36.5	4,115	-
	40	AR2206	34.0	3,780	-	37.0	4,175	-
	40	AR2206H	34.0	3,750	-	37.0	4,060	-
	40	AR2208	37.5	3,935	-	39.5	4,135	-
	50	AR2219	30.0	3,440	-	32.0	3,630	-
	50	Bench Mark 2	33.5	3,720	-	36.0	3,905	-
	50	AR2206	33.5	3,565	-	36.0	3,830	-
	50	AR2206H	33.5	3,530	-	36.5	3,830	-
	50	AR2208	34.5	3,595	-	37.5	3,835	-
	50	AR2209	39.0	3,410	-	42.0	3,580	-
	50	AR2213SC	39.0	3,225	-	42.0	3,475	-
	52	AR2207	27.0	3,385	-	29.0	3,635	-
	52	AR2219	29.0	3,380	-	31.0	3,500	-
	52	Bench Mark 2	32.5	3,600	-	34.6	3,755	-
	52	AR2206	32.5	3,505	-	35.0	3,750	-
	52	AR2206H	32.5	3,465	-	35.5	3,730	-
	52	AR2208	34.0	3,630	-	36.0	3,785	-
	52	AR2209	39.0	3,400	-	41.0	3,560	-
	55	AR2219	28.0	3,340	-	30.0	3,480	-
	55	Bench Mark 2	31.6	3,530	-	33.6	3,675	-
	55	AR2206	32.5	3,415	-	35.0	3,680	-
	55	AR2206H	32.5	3,445	-	35.5	3,670	-
	55	AR2208	34.0	3,490	-	36.5	3,665	-
	55	AR2209	37.0	3,295	-	39.0	3,490	-
	63	AR2206H	31.5	3,315	-	34.0	3,485	-
	63	AR2208	29.5	3,040	-	34.0	3,425	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
22-250 Remington 24" Barrel (cont.)								
	63	AR2209	36.0	3,210	-	38.0	3,390	-
	63	AR2213SC	37.0	3,105	-	41.0	3,440	-
	70	AR2206	28.0	3,000	-	30.0	3,180	-
	70	AR2206H	28.0	2,935	-	31.5	3,195	-
	70	AR2208	29.5	3,005	-	32.0	3,195	-
	70	AR2209	34.0	3,005	-	36.0	3,130	-
	70	AR2213SC	35.0	2,975	-	38.0	3,190	-
	70	AR2217	36.0	3,040	-	38.0	3,190	-
22-250 Improved (Ackley) 26" Barrel								
	50	AR2206	-	-	-	36.5	3,800	-
	50	AR2208	-	-	-	39.0	3,800	-
	50	AR2209	-	-	-	42.5	3,800	-
	52-53	AR2206	-	-	-	35.5	3,750	-
	52-53	AR2208	-	-	-	38.0	3,750	-
	52-53	AR2209	-	-	-	41.0	3,750	-
	55	AR2206	-	-	-	34.5	3,650	-
	55	AR2208	-	-	-	37.0	3,650	-
	55	AR2209	-	-	-	40.0	3,650	-
	60-63	AR2206	-	-	-	32.5	3,500	-
	60-63	AR2208	-	-	-	35.0	3,500	-
	60-63	AR2209	-	-	-	38.0	3,500	-
	68-70	AR2206	-	-	-	31.5	3,400	-
	68-70	AR2208	-	-	-	34.0	3,400	-
	68-70	AR2209	-	-	-	37.0	3,400	-
220 Swift 26" Barrel								
	40	AR2206	36.0	3,680	-	38.0	3,950	-
	40	AR2206H	37.0	3,770	-	40.0	4,125	-
	40	AR2208	38.0	4,005	-	40.5	4,115	-
	45	AR2206	36.0	3,650	-	37.5	3,800	-
	45	AR2206H	36.5	3,675	-	39.5	3,995	-
	45	AR2208	36.0	3,775	-	40.2	4,000	-
	50	Bench Mark 2	35.0	3,480	-	37.5	3,845	-
	50	AR2206	35.0	3,470	-	38.5	3,920	-
	50	AR2206H	35.0	3,460	-	38.0	3,840	-
	50	AR2208	34.5	3,615	-	36.0	3,770	-
	50	AR2209	40.0	3,550	-	44.5C	3,770	-
	50	AR2213SC	39.5	3,400	-	44.5C	3,545	-
	52	AR2206H	33.8	3,590	-	36.0	3,735	-
	52	AR2208	34.0	3,515	-	36.5	3,690	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
220 Swift 26" Barrel (cont.)								
	55	AR2206H	34.0	3,480	-	37.0	3,700	-
	55	AR2208	34.0	3,515	-	36.0	3,645	-
	55	AR2209	39.0	3,225	-	42.0	3,620	-
	55	AR2213SC	41.5	3,195	-	46.0	3,615	-
	60	AR2206H	30.5	3,165	-	33.5	3,400	-
	60	AR2208	33.0	3,240	-	36.0	3,475	-
	60	AR2209	37.0	3,230	-	41.0	3,530	-
	60	AR2213SC	41.5	3,250	-	46.0C	3,555	-
	60	AR2217	41.0	3,100	-	45.5	3,345	-
	63	AR2206H	32.5	3,220	-	35.5	3,485	-
	63	AR2208	32.0	3,180	-	34.0	3,410	-
	63	AR2209	37.0	3,180	-	39.0	3,475	-
	63	AR2213SC	41.5	3,180	-	46.0	3,585	-
	70	AR2208	31.0	3,105	-	33.0	3,250	-
	70	AR2209	36.0	3,025	-	38.0	3,315	-
	70	AR2213SC	37.0	2,991	-	42.0	3,360	-
	70	AR2217	42.0	3,149	-	44.0	3,320	-
220 Jaybird 26" Barrel								
	52	AR2209	43.0	3,508	-	47.0	3,990	-
	55	AR2209	43.0	3,509	-	47.0	3,980	-
	60	AR2209	41.0	3,235	-	45.0	3,765	-
	60	AR2213SC	43.0	3,362	-	47.0	3,770	-
	69	AR2213SC	43.0	3,318	-	47.0	3,655	-
5.6mm X 57 RWS 26" Barrel								
	50	AR2208	-	-	-	37.0	3,700	-
	50	AR2209	-	-	-	41.0	3,700	-
	55	AR2208	-	-	-	36.0	3,550	-
	55	AR2209	-	-	-	40.0	3,550	-
	60	AR2208	-	-	-	35.0	3,450	-
	60	AR2209	-	-	-	39.0	3,450	-
	69-70	AR2208	-	-	-	34.0	3,300	-
	69-70	AR2209	-	-	-	38.0	3,300	-
	74	AR2209	-	-	-	37.0	3,250	-
CAUTION: If reloading old style thick walled brass reduce these loads by at least 4 grains to avoid dangerous pressures.								
22 Cheetah Mark II 27" Barrel								
	50	AR2209	46.0	3,900	-	51.0	4,070	-
	55	AR2209	46.0	3,775	-	51.0	4,020	-

C = Compressed Load: L = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
223 Winchester Super Short Magnum 24" Barrel								
	40	AR2206H	40.4	4,120	54,300 psi	43.0	4,320	62,900 psi
	40	AR2208	41.0	4,075	54,100 psi	43.5	4,280	63,800 psi
	45	AR2206H	40.0	3,950	51,200 psi	42.8	4,155	61,900 psi
	45	AR2208	40.7	3,935	51,400 psi	43.3	4,135	61,800 psi
	45	AR2209	47.0	3,885	54,100 psi	50.0C	4,130	63,000 psi
	50	AR2206H	40.0	3,805	51,600 psi	42.9	4,020	62,700 psi
	50	AR2208	41.0	3,785	50,500 psi	44.0	4,015	61,800 psi
	50	AR2209	47.0	3,780	50,200 psi	50.0C	4,025	61,500 psi
	52	AR2206H	38.8	3,805	54,400 psi	41.3	3,950	61,600 psi
	52	AR2208	40.0	3,760	54,000 psi	43.0	3,950	63,600 psi
	52	AR2209	46.0	3,755	51,500 psi	49.0C	3,960	62,300 psi
	55	AR2206H	36.5	3,620	53,200 psi	39.0	3,800	62,100 psi
	55	AR2208	38.0	3,650	53,300 psi	40.5	3,835	62,100 psi
	55	AR2209	44.5	3,715	55,900 psi	47.5	3,880	63,100 psi
	55	AR2213SC	46.0	3,580	53,000 psi	49.0C	3,745	62,600 psi
	60	AR2206H	35.0	3,480	53,700 psi	37.3	3,625	62,200 psi
	60	AR2208	36.0	3,510	55,400 psi	38.5	3,655	61,400 psi
	60	AR2209	41.0	3,570	57,800 psi	43.8	3,725	63,400 psi
	60	AR2213SC	43.5	3,520	58,300 psi	46.3C	3,660	63,500 psi
	69	AR2206H	34.5	3,280	56,500 psi	36.8	3,425	61,800 psi
	69	AR2208	36.0	3,325	55,900 psi	38.5	3,490	62,900 psi
	69	AR2209	40.0	3,320	52,400 psi	42.5	3,505	63,300 psi
	69	AR2213SC	43.5	3,310	54,700 psi	46.5C	3,490	63,200 psi
	69	AR2217	46.8	3,330	53,700 psi	49.8C	3,470	60,100 psi
	75	AR2206H	33.0	3,120	56,200 psi	35.2	3,265	61,200 psi
	75	AR2208	34.5	3,175	55,200 psi	36.8	3,330	61,700 psi
	75	AR2209	39.0	3,225	57,900 psi	41.5	3,375	63,700 psi
	75	AR2213SC	42.0	3,200	56,500 psi	45.1	3,350	63,200 psi
	75	AR2217	46.0	3,250	55,900 psi	49.0C	3,380	62,400 psi
	77	AR2206H	32.0	3,050	58,100 psi	34.2	3,195	62,700 psi
	77	AR2208	33.5	3,100	59,100 psi	35.8	3,250	63,000 psi
	77	AR2209	37.0	3,135	54,600 psi	39.5	3,290	61,000 psi
	77	AR2213SC	40.5	3,160	57,600 psi	43.3	3,300	62,700 psi
	77	AR2217	44.5	3,220	57,400 psi	47.7C	3,360	63,500 psi
22 Savage Hi Power (5.6 x 52R) 24" Barrel								
	70	AR2207	-	-	-	21.50	2,900	-
	70	AR2208	-	-	-	24.50	2,900	-
6mm-222 24" Barrel								
	60	AR2207	17.0	2,790	-	19.0	3,025	-

**C** = Compressed Load: **L** = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6mm-222 24" Barrel (cont.)								
	60	AR2206H	21.5	2,750	-	23.5	3,045	-
	75	AR2207	16.0	2,470	-	18.0	2,720	-
	75	AR2206H	20.0	2,445	-	22.0	2,660	-
	85	AR2207	14.5	2,290	-	16.5	2,515	-
	85	AR2206H	19.5	2,375	-	20.5	2,505	-
	100	AR2207	13.0	1,910	-	15.0	2,090	-
	100	AR2206H	17.0	1,995	-	19.0	2,210	-
6mm-284 26" Barrel								
	55	AR2206H	47	3,835	-	50	4,050	-
	55	AR2208	47.0	3,780	-	50.5	3,920	-
	55	AR2209	55.0	3,740	-	59.0C	4,040	-
	60	AR2206H	45.0	3,740	-	48.5	3,910	-
	60	AR2208	45.0	3,670	-	49.0	3,855	-
	60	AR2209	54.0	3,720	-	58.0	3,975	-
	60	AR2213SC	56.0	3,585	-	60.0C	3,755	-
	65	AR2206H	43.0	3,530	-	46.0	3,725	-
	65	AR2208	44.0	3,530	-	47.0	3,690	-
	65	AR2209	51.7	3,585	-	55.0	3,770	-
	65	AR2213SC	54.0	3,480	-	57.5	3,680	-
	70	AR2209	52.0	3,550	-	55.0	3,730	-
	70	AR2213SC	55.0	3,440	-	58.5C	3,630	-
	75	AR2209	49.0	3,465	-	53.0	3,645	-
	75	AR2213SC	53.0	3,330	-	56.5	3,565	-
	80	AR2209	47.5	3,260	-	50.5	3,450	-
	80	AR2213SC	52.0	3,305	-	55.0	3,440	-
	80	AR2217	55.0	3,295	-	59.0C	3,470	-
	85	AR2209	49.0	3,195	-	52.0	3,370	-
	85	AR2213SC	53.0	3,170	-	56.5C	3,370	-
	85	AR2217	57.0	3,200	-	59.0	3,270	-
	85	AR2225	57.0	3,130	-	59.0C	3,270	-
	90	AR2209	44.5	3,075	-	47.5	3,225	-
	90	AR2213SC	49.0	3,100	-	52.5	3,270	-
	90	AR2217	52.0	3,070	-	55.5	3,240	-
	90	AR2225	55.5	3,185	-	59.0C	3,340	-
	100	AR2209	43.0	2,925	-	46.0	3,065	-
	100	AR2213SC	48.0	2,960	-	51.0	3,110	-
	100	AR2217	52.0	3,005	-	55.0	3,145	-
	100	AR2225	54.0	3,020	-	57.5	3,220	-
	105	AR2213SC	45.0	2,805	-	48.0	2,980	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6mm-284 26" Barrel (cont.)								
	105	AR2217	47.0	2,795	-	50.0	2,915	-
	105	AR2225	51.0	2,900	-	54.5C	3,070	-
	107	AR2213SC	48.0	2,945	-	51.0	3,050	-
	107	AR2217	51.0	2,880	-	54.5	3,070	-
	107	AR2225	53.0	2,970	-	56.5C	3,140	-
	115	AR2213SC	43.0	2,670	-	46.0	2,800	-
	115	AR2217	46.0	2,680	-	49.0	2,805	-
	115	AR2225	50.0	2,805	-	53.0C	2,935	-
6mm x 45 (6mm-223) 24" Barrel								
	60	AR2207	19.5	2,615	-	21.5	2,955	-
	60	AR2219	23.0	2,850	-	25.0	3,100	-
	60	AR2206H	25.5	2,870	-	27.5	3,105	-
	70	AR2207	19.0	2,515	-	21.0	2,775	-
	70	AR2219	23.0	2,760	-	25.0	2,985	-
	70	AR2206H	25.5	2,810	-	27.5	3,035	-
	75	AR2207	18.5	2,295	-	19.5	2,480	-
	75	AR2219	23.0	2,775	-	24.0	2,860	-
	75	AR2206H	25.0	2,705	-	27.0	2,950	-
	80	AR2207	17.5	2,230	-	19.0	2,440	-
	80	AR2219	21.5	2,505	-	23.5	2,785	-
	80	AR2206H	25.0	2,690	-	27.0	2,905	-
	85	AR2207	17.5	2,230	-	19.0	2,440	-
	85	AR2219	21.5	2,480	-	23.5	2,695	-
	85	AR2206H	24.0	2,560	-	26.0	2,785	-
	90	AR2207	17.5	2,190	-	19.0	2,350	-
	90	AR2219	20.5	2,390	-	22.5	2,530	-
	90	AR2206H	23.5	2,510	-	25.5	2,720	-
	100	AR2206H	22.0	2,415	-	24.0	2,615	-
6mm x 47 23.5" Barrel								
	60	AR2207	22.0	2,895	-	24.0	3,170	-
	60	Bench Mark 1	25.0	2,955	-	27.0	3,180	-
	60	AR2219	26.0	3,040	-	28.0	3,225	-
	60	AR2206	26.0	2,950	-	28.0	3,110	-
	60	AR2206H	26.0	2,920	-	28.5	3,100	-
	60	AR2208	26.0	2,870	-	29.0	3,100	-
	70	AR2207	21.0	2,725	-	23.0	2,945	-
	70	Bench Mark 1	24.5	2,785	-	27.0	2,990	-
	70	AR2219	26.0	2,935	-	28.0	3,115	-
	70	AR2206	26.0	2,840	-	28.0	2,970	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6mm x 47 23.5" Barrel (cont.)								
	70	AR2206H	26.0	2,745	-	28.0	2,915	-
	70	AR2208	26.5	2,795	-	28.5	2,920	-
	75	AR2207	20.5	2,665	-	22.5	2,850	-
	75	Bench Mark 1	23.5	2,680	-	25.5	2,890	-
	75	AR2219	24.0	2,700	-	26.0	2,960	-
	75	AR2206	25.0	2,670	-	27.0	2,870	-
	75	AR2206H	25.5	2,710	-	27.5	2,910	-
	75	AR2208	26.0	2,555	-	28.0	2,750	-
	80	AR2207	20.0	2,525	-	22.0	2,700	-
	80	Bench Mark 1	21.0	2,550	-	23.0	2,750	-
	80	AR2219	23.5	2,605	-	25.5	2,810	-
	80	AR2206	24.0	2,495	-	26.0	2,705	-
	80	AR2206H	25.0	2,620	-	27.0	2,860	-
	80	AR2208	25.0	2,410	-	27.0	2,600	-
	85	AR2207	19.5	2,400	-	21.5	2,570	-
	85	AR2219	23.0	2,515	-	25.0	2,715	-
	85	AR2206H	24.0	2,485	-	26.0	2,715	-
6mm PPC 24" Barrel								
	55	AR2207	25.0	3,280	-	26.7	3,445	-
	55	AR2219	27.5	3,160	-	29.5	3,390	-
	55	Bench Mark 2	28.0	3,205	-	30.0	3,405	-
	58	AR2207	24.0	3,110	-	25.7	3,350	-
	58	AR2219	27.0	3,160	-	29.0	3,355	-
	58	Bench Mark 2	27.7	3,120	-	29.5	3,325	-
	60	AR2207	21.0	2,855	-	23.0	2,975	-
	60	Bench Mark 1	24.0	2,920	-	25.5	3,100	-
	60	AR2219	26.0	3,090	-	27.0	3,165	-
	60	Bench Mark 2	26.0	2,910	-	29.0	3,235	-
	60	AR2206	27.0	3,060	-	29.0	3,280	-
	60	AR2206H	27.0	2,915	-	29.0	3,220	-
	60	AR2208	27.0	2,900	-	29.0	3,075	-
	65	AR2207	23.5	3,010	-	25.5	3,220	-
	65	AR2219	26.3	2,985	-	28.0	3,180	-
	65	Bench Mark 2	26.6	3,000	-	28.3	3,160	-
	70	AR2207	21.0	2,745	-	22.0	2,840	-
	70	Bench Mark 1	24.0	2,780	-	26.0	3,010	-
	70	AR2219	25.0	2,965	-	26.5	3,070	-
	70	Bench Mark 2	26.0	2,805	-	29.0	3,150	-
	70	AR2206	26.0	2,780	-	29.0	3,100	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6mm PPC 24" Barrel (cont.)								
	70	AR2206H	26.0	2,715	-	28.0	3,035	-
	70	AR2208	27.0	2,845	-	29.0	3,035	-
	75	AR2207	20.0	2,660	-	21.0	2,780	-
	75	Bench Mark 1	22.0	2,615	-	24.0	2,850	-
	75	AR2219	24.5	2,810	-	26.0	2,975	-
	75	Bench Mark 2	25.5	2,750	-	28.5	3,040	-
	75	AR2206	25.5	2,700	-	27.5	3,010	-
	75	AR2206H	25.5	2,740	-	27.5	2,980	-
	75	AR2208	26.0	2,735	-	28.0	2,905	-
	80	AR2207	19.0	2,360	-	21.0	2,640	-
	80	AR2219	23.5	2,660	-	25.5	2,865	-
	80	Bench Mark 2	25.0	2,675	-	28.0	2,970	-
	80	AR2206H	25.0	2,640	-	27.0	2,905	-
	80	AR2208	26.0	2,690	-	28.0	2,845	-
	85	AR2219	23.0	2,570	-	27.0	2,860	-
	85	Bench Mark 2	24.5	2,620	-	27.0	2,860	-
	85	AR2206H	24.0	2,540	-	26.0	2,785	-
	85	AR2208	26.0	2,670	-	28.0	2,850	-
	107	AR2219	22.0	2,350	-	24.5	2,555	-
	107	Bench Mark 2	24.0	2,435	-	25.8	2,585	-
	107	AR2206H	24.5	2,425	-	26.8C	2,630	-
	107	AR2208	26.0	2,505	-	27.7C	2,625	-
6mm BR Remington 24" Barrel								
	55	AR2207	26.0	3,230	-	28.8	3,545	-
	55	AR2219	30.0	3,335	-	32.5	3,605	-
	55	Bench Mark 2	31.0	3,320	-	33.5C	3,555	-
	55	AR2206H	31.0	3,235	-	33.0C	3,450	-
	55	AR2208	31.0	3,045	-	34.0C	3,350	-
	58	AR2207	26.0	3,205	-	28.5	3,455	-
	58	AR2219	29.5	3,240	-	31.3	3,415	-
	58	Bench Mark 2	30.0	3,240	-	32.0	3,450	-
	58	AR2206H	31.5	3,250	-	33.5	3,415	-
	58	AR2208	31.0	3,050	-	34.0C	3,355	-
	60	AR2207	25.0	3,135	-	27.5	3,380	-
	60	AR2219	30.0	3,280	-	32.0	3,480	-
	60	Bench Mark 2	30.0	3,165	-	32.0	3,375	-
	60	AR2206	30.5	3,175	-	32.5	3,380	-
	60	AR2206H	31.0	3,175	-	33.0C	3,385	-
	60	AR2208	31.0	3,160	-	34.0C	3,440	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6mm BR Remington 24" Barrel (cont.)								
	65	AR2207	25.0	3,070	-	27.0	3,245	-
	65	AR2219	27.0	2,980	-	30.5	3,305	-
	65	Bench Mark 2	27.0	2,995	-	30.5	3,205	-
	65	AR2206H	30.0	3,065	-	33.0	3,365	-
	65	AR2208	31.0	3,020	-	33.0	3,270	-
	70	AR2219	28.0	2,975	-	30.0	3,200	-
	70	Bench Mark 2	29.7	3,020	-	31.6	3,230	-
	70	AR2206	29.0	2,995	-	31.0	3,200	-
	70	AR2206H	29.0	2,895	-	31.0	3,190	-
	70	AR2208	31.0	3,100	-	34.0C	3,345	-
	75	AR2219	26.0	2,755	-	28.0	3,095	-
	75	Bench Mark 2	29.0	2,960	-	31.0	3,125	-
	75	AR2206	28.5	2,915	-	30.5	3,120	-
	75	AR2206H	28.5	2,980	-	30.5	3,130	-
	75	AR2208	30.5	3,055	-	32.5	3,240	-
	80	AR2219	26.0	2,785	-	28.0	3,005	-
	80	Bench Mark 2	28.5	2,870	-	30.5	3,050	-
	80	AR2206H	28.0	2,945	-	30.0	3,100	-
	80	AR2208	30.5	3,000	-	32.5	3,160	-
	85	AR2219	22.0	2,470	-	24.0	2,630	-
	85	Bench Mark 2	27.7	2,790	-	29.7	2,960	-
	85	AR2206H	24.5	2,590	-	26.5	2,770	-
	85	AR2208	29.0	2,840	-	31.0	3,010	-
	90	AR2219	22.0	2,425	-	24.0	2,610	-
	90	Bench Mark 2	27.0	2,705	-	29.0	2,870	-
	90	AR2206H	24.5	2,560	-	27.0	2,745	-
	90	AR2208	27.5	2,675	-	30.2	2,885	-
	100	AR2219	22.0	2,275	-	23.5	2,520	-
	100	Bench Mark 2	26.0	2,485	-	28.0	2,670	-
	100	AR2206H	24.5	2,425	-	27.0	2,605	-
	100	AR2208	26.0	2,490	-	28.0	2,650	-
	107	AR2219	23.0	2,325	-	25.5	2,525	-
	107	Bench Mark 2	26.0	2,465	-	28.0	2,615	-
	107	AR2206H	24.5	2,330	-	27.5	2,605	-
	107	AR2208	26.0	2,365	-	29.0C	2,620	-
6mm International 20" Barrel								
	60	AR2207	-	-	-	30.0	3,300	-
	60	AR2206	-	-	-	33.5	3,300	-
	60	AR2208	-	-	-	36.0	3,300	-

C = Compressed Load: L = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS			
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE	
6mm International	20" Barrel (cont.)								
	75	AR2207	-	-	-	27.0	2,900	-	
	75	AR2206	-	-	-	30.5	2,900	-	
	75	AR2208	-	-	-	33.0	2,900	-	
6mm-250	24" Barrel								
	55	Bench Mark 2	34.0	3,450	-	37.0	3,685	-	
	55	AR2206H	37.0	3,545	-	39.7C	3,765	-	
	55	AR2208	38.0	3,515	-	40.5C	3,720	-	
	60	Bench Mark 2	33.0	3,335	-	35.5	3,525	-	
	60	AR2206H	36.0	3,415	-	38.5	3,675	-	
	60	AR2208	37.0	3,400	-	39.3	3,600	-	
	70	Bench Mark 2	31.0	3,150	-	34.3	3,310	-	
	70	AR2206H	34.0	3,230	-	37.0	3,435	-	
	70	AR2208	35.0	3,165	-	37.5	3,385	-	
	80	AR2206H	34.0	3,185	-	36.0	3,305	-	
	80	AR2208	34.0	3,105	-	36.7	3,275	-	
	80	AR2209	39.0	3,080	-	41.0C	3,210	-	
	85	AR2206H	32.7	3,070	-	34.8	3,190	-	
	85	AR2208	33.0	3,010	-	35.4	3,170	-	
	85	AR2209	38.5	3,060	-	41.0C	3,225	-	
	90	AR2206H	32.4	2,940	-	34.5	3,060	-	
	90	AR2208	33.3	2,925	-	35.5	3,055	-	
	90	AR2209	38.5	2,985	-	41.0C	3,125	-	
	95	AR2206H	31.0	2,830	-	33.0	2,935	-	
	95	AR2208	31.7	2,820	-	33.8	2,960	-	
	95	AR2209	36.5	2,885	-	39.0C	3,045	-	
	95	AR2213SC	37.5	2,700	-	40.0C	2,825	-	
	100	AR2206H	29.8	2,710	-	31.8	2,835	-	
	100	AR2208	31.5	2,740	-	33.5	2,850	-	
	100	AR2209	35.5	2,770	-	37.9C	2,890	-	
	105	AR2206H	28.9	2,645	-	30.8	2,730	-	
	105	AR2208	30.8	2,725	-	32.8	2,820	-	
	105	AR2209	34.7	2,725	-	37.0C	2,885	-	
	105	AR2213SC	37.6	2,690	-	40.0C	2,800	-	
	107	AR2206H	29.7	2,660	-	31.6	2,785	-	
	107	AR2208	31.2	2,715	-	33.2	2,820	-	
	107	AR2209	35.2	2,720	-	37.5	2,845	-	
	107	AR2213SC	37.6	2,605	-	40.0C	2,740	-	
	243 Winchester	24" Barrel							
		55	Bench Mark 2	39.0	3,575	-	41.5	3,815	-

**C** = Compressed Load: **L** = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
243 Winchester 24" Barrel (cont.)								
	55	AR2206	39.0	3,695	-	42.0	3,890	-
	55	AR2206H	40.0	3,640	-	44.5	4,060	-
	55	AR2208	41.0	3,775	-	45.0	4,000	-
	55	AR2209	47.0	3,580	-	50.0C	3,825	-
	58	Bench Mark 2	35.0	3,415	-	37.5	3,610	-
	58	AR2206H	40.0	3,645	-	43.0	3,850	-
	58	AR2208	41.0	3,620	-	44.0	3,790	-
	60	Bench Mark 2	38.5	3,585	-	41.2	3,715	-
	60	AR2206	38.0	3,550	-	41.5	3,715	-
	60	AR2206H	38.0	3,520	-	42.0	3,810	-
	60	AR2208	40.0	3,670	-	42.7	3,815	-
	65	Bench Mark 2	37.0	3,420	-	40.0	3,600	-
	65	AR2206H	38.0	3,520	-	41.0	3,680	-
	65	AR2208	38.0	3,495	-	41.0	3,680	-
	70	Bench Mark 2	36.5	3,130	-	39.3	3,490	-
	70	AR2206	36.0	3,295	-	38.0	3,495	-
	70	AR2206H	36.0	3,285	-	39.5	3,480	-
	70	AR2208	38.0	3,435	-	40.5	3,575	-
	70	AR2209	40.0	2,995	-	43.5	3,190	-
	70	AR2213SC	44.0	3,000	-	48.00	3,160	-
	75	AR2206	34.0	3,125	-	36.5	3,330	-
	75	AR2206H	34.0	3,100	-	38.0	3,355	-
	75	AR2208	36.0	3,245	-	38.5	3,410	-
	75	AR2209	41.0	2,950	-	44.5	3,335	-
	75	AR2213SC	44.0	2,950	-	48.0	3,175	-
	80	AR2206	34.0	3,055	-	36.0	3,225	-
	80	AR2206H	35.0	3,125	-	38.0	3,310	-
	80	AR2208	36.0	3,195	-	38.5	3,355	-
	80	AR2209	42.0	3,100	-	45.0	3,290	-
	80	AR2213SC	44.0	3,015	-	47.3	3,295	-
	85	AR2206	32.0	2,950	-	35.5	3,125	-
	85	AR2206H	35.0	3,015	-	38.0	3,185	-
	85	AR2208	35.0	3,020	-	38.0	3,210	-
	85	AR2209	42.0	2,965	-	45.5C	3,215	-
	90	AR2206H	34.0	2,965	-	36.5	3,115	-
	90	AR2208	34.0	2,965	-	36.5	3,105	-
	90	AR2209	42.0	3,040	-	44.5	3,185	-
	90	AR2213SC	45.0	3,010	-	48.0C	3,205	-
	95	AR2206H	33.0	2,865	-	35.0	2,990	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
243 Winchester 24" Barrel (cont.)								
	95	AR2208	33.0	2,870	-	35.0	2,995	-
	95	AR2209	39.0	2,915	-	42.0	3,085	-
	95	AR2213SC	42.0	2,930	-	44.5C	3,050	-
	95	AR2217	45.0	2,945	-	48.0C	3,080	-
	100	Trail Boss	8.0	1,045	-	15.3	1,605	-
	100	AR2206H	31.0	2,685	-	33.0	2,820	-
	100	AR2208	31.0	2,675	-	33.7	2,840	-
	100	AR2209	37.0	2,805	-	40.0	2,975	-
	100	AR2213SC	39.0	2,760	-	42.0	2,925	-
	100	AR2217	44.0	2,875	-	47.0C	3,000	-
	105	AR2206H	30.5	2,620	-	32.5	2,725	-
	105	AR2208	31.0	2,630	-	33.0	2,770	-
	105	AR2209	35.0	2,665	-	37.5	2,800	-
	105	AR2213SC	38.0	2,685	-	41.0	2,845	-
	105	AR2217	43.0	2,795	-	46.0C	2,930	-
	105	AR2225	46.0	2,770	-	49.0C	2,985	-
	107	AR2206H	30.5	2,615	-	32.5	2,720	-
	107	AR2208	31.0	2,630	-	33.0	2,750	-
	107	AR2209	35.0	2,670	-	37.5	2,800	-
	107	AR2213SC	38.0	2,680	-	41.0	2,835	-
	107	AR2217	43.0	2,785	-	46.0C	2,920	-
	107	AR2225	46.0	2,785	-	49.0C	2,975	-
6mm Remington (.244 Remington) 24" Barrel								
	55	Bench Mark 2	41.5	3,735	-	44.2	3,975	-
	55	AR2206H	41.0	3,800	-	45.5	4,115	-
	55	AR2208	42.0	3,770	-	46.0	4,015	-
	58	Bench Mark 2	38.0	3,435	-	41.5	3,790	-
	58	AR2206H	42.0	3,750	-	45.0	3,895	-
	58	AR2208	42.0	3,635	-	45.0	3,830	-
	60	Bench Mark 2	40.0	3,570	-	43.0	3,840	-
	60	AR2206H	40.0	3,550	-	44.0	3,855	-
	60	AR2208	38.0	3,365	-	42.0	3,720	-
	65	Bench Mark 2	39.0	3,515	-	41.3	3,705	-
	65	AR2206H	38.5	3,460	-	42.7	3,720	-
	65	AR2208	40.0	3,470	-	44.0	3,735	-
	65	AR2209	48.0	3,490	-	51.5	3,720	-
	65	AR2213SC	51.0	3,485	-	53.0C	3,575	-
	70	Bench Mark 2	38.0	3,385	-	40.7	3,575	-
	70	AR2206H	38.0	3,280	-	42.0	3,590	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6mm Remington (.244 Remington) 24" Barrel (cont.)								
	70	AR2208	38.0	3,245	-	42.0	3,550	-
	70	AR2209	46.0	3,315	-	50.5	3,640	-
	75	AR2206H	36.0	3,150	-	40.0	3,395	-
	75	AR2208	37.0	3,185	-	41.0	3,395	-
	75	AR2209	44.0	3,175	-	49.0	3,500	-
	75	AR2213SC	48.0	3,210	-	51.0	3,490	-
	80	AR2206H	36.0	3,115	-	39.5	3,310	-
	80	AR2208	37.0	3,085	-	41.0	3,380	-
	80	AR2209	44.0	3,155	-	47.0	3,340	-
	80	AR2213SC	48.0	3,205	-	51.0	3,360	-
	85	AR2206H	35.0	3,010	-	38.0	3,200	-
	85	AR2208	35.0	2,980	-	39.0	3,235	-
	85	AR2209	41.0	2,995	-	46.0	3,275	-
	85	AR2213SC	44.0	2,985	-	49.5	3,290	-
	87	AR2206H	33.7	2,910	-	37.4	3,160	-
	87	AR2208	35.5	3,010	-	38.5	3,175	-
	87	AR2209	41.0	3,020	-	45.5	3,240	-
	87	AR2213SC	43.5	2,970	-	48.0	3,215	-
	90	AR2206H	33.0	2,755	-	36.0	2,940	-
	90	AR2208	33.0	2,720	-	36.5	2,955	-
	90	AR2209	40.0	2,915	-	43.0	3,060	-
	90	AR2213SC	43.0	2,945	-	45.0	3,030	-
	90	AR2217	48.0	3,055	-	50.0C	3,130	-
	95	AR2208	34.0	2,795	-	37.0	2,995	-
	95	AR2209	42.0	2,915	-	45.0	3,105	-
	95	AR2213SC	45.0	2,910	-	48.7	3,125	-
	95	AR2217	50.0	2,985	-	52.0C	3,095	-
	100	AR2206H	33.0	2,735	-	35.0	2,890	-
	100	AR2208	32.0	2,590	-	36.0	2,935	-
	100	AR2209	39.0	2,820	-	42.5	3,000	-
	100	AR2213SC	43.0	2,940	-	46.0	3,040	-
	100	AR2217	47.0	2,910	-	50.0	3,080	-
	105	AR2208	33.0	2,715	-	35.5	2,880	-
	105	AR2209	40.0	2,820	-	43.2	2,985	-
	105	AR2213SC	43.0	2,795	-	46.5	3,000	-
	105	AR2217	49.0	2,895	-	51.0C	3,010	-
	107	AR2208	31.5	2,540	-	35.5	2,855	-
	107	AR2209	39.0	2,745	-	42.0	2,905	-
	107	AR2213SC	43.0	2,820	-	46.0	2,990	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6mm Remington (.244 Remington) 24" Barrel (cont.)								
	107	AR2217	47.0	2,860	-	49.5	3,010	-
	107	AR2225	49.0	2,800	-	52.0C	2,980	-
	115	AR2209	36.0	2,535	-	39.0	2,695	-
	115	AR2213SC	39.0	2,600	-	42.0	2,760	-
	115	AR2217	43.0	2,665	-	45.5	2,795	-
	115	AR2225	47.0	2,710	-	50.0C	2,880	-
243 Winchester Super Short Magnum 24" Barrel								
	58	AR2206H	42.0	3,755	51,700 psi	45.3	4,020	63,100 psi
	58	AR2208	44.0	3,740	52,000 psi	47.0	3,975	62,800 psi
	70	AR2206H	39.0	3,435	52,500 psi	42.0	3,620	62,500 psi
	70	AR2208	41.0	3,475	54,500 psi	43.7	3,655	63,400 psi
	70	AR2209	45.0	3,385	48,000 psi	48.7C	3,615	58,400 psi
	80	AR2206H	38.5	3,255	53,300 psi	41.0	3,410	62,500 psi
	80	AR2208	39.0	3,290	54,400 psi	42.0	3,460	63,300 psi
	80	AR2209	45.0	3,325	52,600 psi	48.7C	3,545	63,000 psi
	90	AR2206H	35.0	2,955	52,000 psi	37.7	3,125	61,900 psi
	90	AR2208	36.0	2,980	53,200 psi	39.2	3,175	63,200 psi
	90	AR2209	41.0	3,085	56,200 psi	44.0C	3,245	62,900 psi
	90	AR2213SC	44.0	3,045	55,800 psi	47.0C	3,200	63,200 psi
	100	AR2206H	33.0	2,810	55,100 psi	35.5	2,945	63,600 psi
	100	AR2208	34.0	2,830	53,600 psi	36.6	2,980	62,100 psi
	100	AR2209	39.0	2,940	55,400 psi	41.7	3,075	62,300 psi
	100	AR2213SC	41.5	2,880	54,000 psi	45.0	3,060	63,000 psi
240 Weatherby Magnum 24" Barrel								
	60	AR2206H	-	-	-	47.0	3,520	-
	60	AR2213SC	-	-	-	57.0	3,490	-
	75	AR2206H	-	-	-	46.0	3,445	-
	75	AR2213SC	-	-	-	56.0	3,455	-
	80	AR2206H	-	-	-	44.0	3,360	-
	80	AR2213SC	-	-	-	56.0	3,480	-
	80	AR2217	57.0	3,080	-	59.0	3,210	-
	85	AR2213SC	-	-	-	56.0	3,460	-
	85	AR2217	57.0	3,045	-	59.0	3,170	-
	90	AR2213SC	-	-	-	55.0	3,395	-
	90	AR2217	57.0	3,035	-	59.0	3,140	-
	100	AR2213SC	-	-	-	53.0	3,200	-
	100	AR2217	57.0	3,020	-	59.	3,120	-
	115	AR2213SC	-	-	-	46.0	2,780	-
	115	AR2217	56.0	2,970	-	58.0	3,065	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
25/20 Winchester 24" Barrel								
	60	AR2205	9.6	1,855	-	10.2	1,960	-
	60	AR2207	12.0	1,815	-	14.2C	2,100	-
	60	AR2219	14.0	1,800	-	15.0C	1,900	-
L	71	AR2205	6.0	1,145	-	7.0	1,345	-
	75	AR2205	8.3	1,520	-	9.3	1,740	-
	75	AR2207	10.5	1,530	-	12.8	1,875	-
	75	AR2219	12.0	1,525	-	13.5	1,700	-
L	85	AR2205	6.0	1,130	-	7.0	1,315	-
	86	AR2205	8.0	1,445	-	8.6	1,545	-
	86	AR2207	10.5	1,575	-	11.5	1,675	-
	86	AR2219	11.3	1,360	-	12.0	1,515	-
256 Winchester Magnum 24" Barrel								
	60	AR2207	17.0	2,685	-	18.0	2,795	-
	75	AR2207	14.0	2,020	-	16.0	2,325	-
	87	AR2207	14.0	2,080	-	15.0	2,190	-
25 Remington 20" Barrel								
	87	AR2207	-	-	-	21.0	2,500	-
	87	AR2206	-	-	-	25.0	2,500	-
	87	AR2208	-	-	-	26.0	2,500	-
	100	AR2207	-	-	-	20.0	2,200	-
	100	AR2206	-	-	-	24.0	2,200	-
	100	AR2208	-	-	-	26.0	2,200	-
	117	AR2207	-	-	-	18.5	2,000	-
	117	AR2206	-	-	-	22.5	2,000	-
	117	AR2208	-	-	-	23.5	2,000	-
25/35 Winchester 20" Barrel								
	60	AR2207	20.0	2,625	-	21.7	2,825	-
	60	AR2219	22.0	2,520	-	24.5	2,795	-
	60	Bench Mark 2	23.0	2,625	-	25.7	2,865	-
	60	AR2206H	26.0	2,795	-	30.5C	3,015	-
	60	AR2208	28.0	2,675	-	31.5C	2,970	-
	75	AR2207	19.0	2,420	-	20.5	2,515	-
	75	AR2219	21.0	2,255	-	23.5	2,545	-
	75	Bench Mark 2	21.0	2,305	-	23.0	2,500	-
	75	AR2206H	25.0	2,470	-	27.4	2,690	-
	75	AR2208	26.5	2,485	-	29.0	2,670	-
L	90	AS30N	5.0	1,285	-	6.0	1,345	-
L	90	Trail Boss	5.5	1,225	-	8.0	1,415	-
	117	AR2207	16.8	1,890	-	18.8	2,065	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
25/35 Winchester 20" Barrel (cont.)								
	117	AR2219	19.0	1,915	-	21.0	2,125	-
	117	Bench Mark 2	19.0	1,900	-	21.0	2,065	-
	117	AR2206H	19.5	1,875	-	22.5	2,170	-
	117	AR2208	21.0	1,915	-	24.5	2,245	-
257 Kimber 22" Barrel								
	75	AR2219	27.0	2,805	-	30.0	3,200	-
	75	AR2206H	28.0	2,755	-	31.5	3,190	-
	87	AR2219	25.0	2,605	-	28.0	2,870	-
	87	AR2206H	29.0	2,825	-	31.0	3,055	-
	100	AR2206H	26.0	2,525	-	28.0	2,760	-
	117	AR2206H	22.0	2,015	-	24.0	2,225	-
250 Savage (250-3000) 24" Barrel								
	75	Bench Mark 2	31.0	2,980	-	33.0	3,100	-
	75	AR2206H	34.0	3,090	-	36.5	3,255	-
	75	AR2208	36.0	3,060	-	38.5	3,255	-
	75	AR2209	39.0	3,080	-	42.0	3,220	-
	85	Bench Mark 2	29.5	2,795	-	31.5	2,945	-
	85	AR2206H	33.0	2,930	-	35.0	3,085	-
	85	AR2208	34.0	2,855	-	37.0	3,090	-
	87	Bench Mark 2	30.5	2,805	-	32.5	2,940	-
	87	AR2206H	33.0	2,915	-	35.5	3,070	-
	87	AR2208	35.0	2,945	-	37.0	3,075	-
	87	AR2209	38.0	2,815	-	41.0	3,065	-
	90	Bench Mark 2	31.0	2,830	-	33.0	2,965	-
	90	AR2206H	33.0	2,900	-	35.5	3,060	-
	90	AR2208	34.0	2,860	-	36.5	3,020	-
	100	AR2206H	31.0	2,700	-	33.5	2,850	-
	100	AR2208	33.0	2,750	-	35.2	2,875	-
	100	AR2209	38.0	2,775	-	40.5C	2,935	-
	100	AR2213SC	41.0	2,715	-	42.0	2,890	-
	115	AR2206H	28.5	2,440	-	30.5	2,565	-
	115	AR2208	30.5	2,495	-	32.5	2,610	-
	115	AR2209	34.5	2,495	-	36.8C	2,640	-
	117	AR2206H	28.5	2,445	-	30.5	2,580	-
	117	AR2208	30.0	2,495	-	32.0	2,595	-
	117	AR2209	35.0	2,520	-	37.0C	2,635	-
	117	AR2213SC	38.0	2,455	-	39.0C	2,520	-
	120	AR2206H	27.5	2,330	-	29.0	2,465	-
	120	AR2208	29.0	2,395	-	31.0	2,510	-

**C** = Compressed Load: **L** = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
250 Savage (250-3000) 24" Barrel (cont.)								
	120	AR2209	33.5	2,445	-	35.5	2,575	-
	120	AR2213SC	37.5	2,470	-	39.0C	2,535	-
25 Winchester Super Short Magnum 24" Barrel								
	75	AR2206H	42.0	3,475	49,700 psi	45.2	3,710	61,800 psi
	75	AR2208	43.0	3,435	49,700 psi	46.5	3,675	62,200 psi
	85	AR2206H	40.0	3,270	50,700 psi	43.3	3,475	62,100 psi
	85	AR2208	40.0	3,180	46,200 psi	44.9	3,495	62,200 psi
	87	AR2206H	40.0	3,270	53,000 psi	43.3	3,455	62,300 psi
	87	AR2208	40.0	3,190	49,800 psi	44.0	3,430	62,600 psi
	100	AR2206H	38.0	3,040	50,500 psi	41.5	3,245	61,700 psi
	100	AR2208	39.0	3,020	50,000 psi	42.8	3,250	62,700 psi
	100	AR2209	45.0	3,035	51,400 psi	48.5C	3,235	61,300 psi
	115	AR2206H	34.0	2,660	51,600 psi	37.0	2,830	62,200 psi
	115	AR2208	36.0	2,725	53,700 psi	38.7	2,870	62,600 psi
	115	AR2209	42.0	2,805	52,800 psi	45.3C	3,000	63,000 psi
	115	AR2213SC	44.0	2,735	52,100 psi	47.0C	2,885	60,900 psi
	117	AR2206H	35.0	2,725	53,800 psi	37.5	2,860	62,200 psi
	117	AR2208	36.0	2,725	52,700 psi	39.0	2,890	62,200 psi
	117	AR2209	42.0	2,795	52,300 psi	45.0	2,965	62,300 psi
	117	AR2213SC	44.0	2,730	51,100 psi	47.5C	2,900	61,300 psi
	120	AR2206H	35.0	2,700	53,300 psi	37.7	2,840	61,700 psi
	120	AR2208	36.0	2,700	53,200 psi	39.0	2,880	63,500 psi
	120	AR2209	42.0	2,795	51,000 psi	45.5C	2,980	62,400 psi
	120	AR2213SC	45.0	2,745	51,600 psi	48.0C	2,900	61,100 psi
25-308 24" Barrel								
	60	AR2206	-	-	-	45.0	3,700	-
	60	AR2208	-	-	-	46.5	3,700	-
	60	AR2209	-	-	-	51.0	3,700	-
	87	AR2206	-	-	-	41.0	3,200	-
	87	AR2208	-	-	-	42.5	3,200	-
	87	AR2209	-	-	-	47.5	3,200	-
	100	AR2208	-	-	-	40.5	3,000	-
	100	AR2209	-	-	-	45.5	3,000	-
	120	AR2209	-	-	-	43.5	2,850	-
25-303 24" Barrel								
	87	AR2206	-	-	-	34.0	3,050	-
	87	AR2208	-	-	-	37.0	3,050	-
	87	AR2209	-	-	-	41.0	3,050	-
	100	AR2206	-	-	-	31.0	2,850	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
25-303 24" Barrel (cont.)								
	100	AR2208	-	-	-	33.5	2,850	-
	100	AR2209	-	-	-	38.0	2,850	-
	117	AR2206	-	-	-	28.0	2,700	-
	117	AR2208	-	-	-	31.0	2,700	-
	117	AR2209	-	-	-	36.0	2,700	-
257 Roberts 24" Barrel								
	60	Bench Mark 2	41.0	3,455	-	43.7	3,670	-
	60	AR2206H	42.0	3,375	-	46.0	3,805	-
	60	AR2209	48.0	3,290	-	51.0	3,610	-
	60	AR2213SC	49.0	2,845	-	53.0	3,380	-
	75	Bench Mark 2	39.0	3,225	-	41.7	3,435	-
	75	AR2206H	40.5	3,200	-	44.0	3,560	-
	75	AR2208	37.0	3,155	-	41.0	3,455	-
	75	AR2209	47.0	3,130	-	50.0	3,420	-
	75	AR2213SC	49.0	2,885	-	53.0	3,310	-
	90	AR2206H	38.5	2,955	-	42.0	3,370	-
	90	AR2208	36.0	2,990	-	40.0	3,270	-
	90	AR2209	44.0	2,890	-	46.0	3,040	-
	90	AR2213SC	48.0	2,785	-	52.0	3,235	-
	100	AR2206H	35.0	2,660	-	38.0	2,990	-
	100	AR2208	34.0	2,725	-	38.0	2,980	-
	100	AR2209	43.0	2,835	-	45.0	2,970	-
	100	AR2213SC	45.0	2,660	-	49.0	3,010	-
	115	AR2206H	33.0	2,435	-	36.0	2,700	-
	115	AR2208	31.0	2,460	-	35.0	2,700	-
	115	AR2209	41.0	2,660	-	43.0	2,780	-
	115	AR2213SC	43.0	2,480	-	46.0	2,760	-
	125	AR2208	30.0	2,260	-	33.5	2,525	-
	125	AR2209	41.0	2,555	-	43.0	2,680	-
	125	AR2213SC	42.0	2,500	-	45.0	2,675	-
257 Roberts Improved 24" Barrel								
	60	AR2206	-	-	-	49.0	3,650	-
	60	AR2208	-	-	-	50.0	3,650	-
	60	AR2209	-	-	-	53.5	3,650	-
	75	AR2206	-	-	-	48.0	3,500	-
	75	AR2208	-	-	-	49.0	3,500	-
	75	AR2209	-	-	-	52.5	3,500	-
	87-90	AR2206	-	-	-	45.5	3,300	-
	87-90	AR2208	-	-	-	46.5	3,300	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
257 Roberts Improved 24" Barrel (cont.)								
	87-90	AR2209	-	-	-	51.0	3,300	-
	100	AR2206	-	-	-	42.0	3,100	-
	100	AR2208	-	-	-	43.5	3,100	-
	100	AR2209	-	-	-	48.0	3,100	-
	117-120	AR2208	-	-	-	41.5	2,900	-
	117-120	AR2209	-	-	-	46.0	2,900	-
25/284 26" Barrel								
	75	AR2209	48.0	3,430	-	52.0	3,640	-
	75	AR2213SC	53.5	3,330	-	58.0	3,605	-
	87	AR2209	46.0	3,180	-	50.0	3,400	-
	87	AR2213SC	52.5	3,345	-	57.0	3,545	-
	100	AR2209	43.0	2,860	-	48.0	3,130	-
	100	AR2213SC	49.5	3,070	-	54.0	3,370	-
	117	AR2213SC	48.0	2,880	-	52.0	3,025	-
	120	AR2209	41.0	2,640	-	44.0	2,915	-
	120	AR2213SC	45.0	2,870	-	49.0	2,980	-
	125	AR2209	38.5	2,570	-	43.0	2,870	-
	125	AR2213SC	43.5	2,655	-	48.0	2,910	-
25/06 Remington 24" Barrel								
	75	AR2206H	45.0	3,475	-	48.5	3,640	-
	75	AR2208	46.0	3,455	-	49.7	3,660	-
	75	AR2209	54.0	3,460	-	58.5	3,700	-
	75	AR2213SC	58.0	3,395	-	62.0C	3,600	-
	75	AR2217	58.0	3,135	-	62.0C	3,340	-
	85	AR2206H	41.0	3,175	-	44.5	3,370	-
	85	AR2208	43.0	3,270	-	46.5	3,450	-
	85	AR2209	49.0	3,255	-	53.0	3,445	-
	85	AR2213SC	54.0	3,300	-	58.0	3,475	-
	85	AR2217	58.0	3,220	-	62.0C	3,440	-
	87	AR2206H	43.0	3,245	-	45.5	3,365	-
	87	AR2208	43.0	3,230	-	46.0	3,380	-
	87	AR2209	50.0	3,235	-	54.5	3,410	-
	87	AR2213SC	56.0	3,230	-	60.0	3,420	-
	87	AR2217	58.0	3,175	-	62.0C	3,295	-
	90	AR2206H	41.0	3,130	-	44.0	3,260	-
	90	AR2208	42.0	3,165	-	45.0	3,310	-
	90	AR2209	49.0	3,190	-	53.0	3,370	-
	90	AR2213SC	54.0	3,215	-	58.0	3,480	-
	90	AR2217	58.0	3,140	-	62.0C	3,330	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
25/06 Remington 24" Barrel (cont.)								
	100	AR2206H	40.0	2,920	-	43.0	3,070	-
	100	AR2208	41.0	2,975	-	44.0	3,125	-
	100	AR2209	47.0	3,040	-	50.0	3,155	-
	100	AR2213SC	51.0	3,025	-	54.3	3,170	-
	100	AR2217	56.0	3,055	-	59.7C	3,210	-
	117	AR2206H	37.0	2,640	-	40.0	2,800	-
	117	AR2208	37.0	2,635	-	41.0	2,840	-
	117	AR2209	44.0	2,735	-	47.7	2,925	-
	117	AR2213SC	48.0	2,750	-	52.0	2,940	-
	117	AR2217	55.0	2,935	-	58.5C	3,045	-
	117	AR2225	56.0	2,875	-	60.5C	3,080	-
	120	AR2206H	37.0	2,540	-	40.0	2,695	-
	120	AR2208	38.0	2,585	-	41.0	2,755	-
	120	AR2209	44.0	2,645	-	47.5	2,815	-
	120	AR2213SC	48.0	2,705	-	51.5	2,855	-
	120	AR2217	52.0	2,770	-	55.5	2,900	-
	120	AR2225	56.0	2,805	-	60.0C	2,990	-
	125	AR2213SC	46.0	2,595	-	49.0	2,770	-
	125	AR2217	50.0	2,665	-	53.0	2,800	-
257 Weatherby Magnum 26" Barrel								
	75	AR2209	65.0	3,715	-	70.0	3,905	-
	75	AR2213SC	71.0	3,650	-	75.0	3,840	-
	75	AR2217	76.0	3,515	-	80.0C	3,650	-
	85	AR2209	63.0	3,545	-	67.0	3,740	-
	85	AR2213SC	68.0	3,500	-	72.0	3,665	-
	85	AR2217	76.0	3,550	-	80.0C	3,665	-
	90	AR2209	62.5	3,525	-	66.5	3,685	-
	90	AR2213SC	67.0	3,420	-	71.0	3,610	-
	90	AR2217	76.0	3,495	-	80.0C	3,670	-
	100	AR2209	59.0	3,310	-	63.0	3,500	-
	100	AR2213SC	64.0	3,310	-	68.0	3,460	-
	100	AR2217	73.0	3,410	-	78.0	3,575	-
	115	AR2209	56.0	2,990	-	60.0	3,190	-
	115	AR2213SC	60.0	3,030	-	64.0	3,170	-
	115	AR2217	67.0	3,145	-	71.0	3,265	-
	117	AR2209	57.0	3,110	-	60.5	3,265	-
	117	AR2213SC	62.0	3,100	-	66.0	3,250	-
	117	AR2217	70.0	3,170	-	74.0	3,320	-
	120	AR2209	56.0	3,000	-	60.0	3,190	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
257 Weatherby Magnum 26" Barrel (cont.)								
	120	AR2213SC	61.0	3,015	-	65.0	3,185	-
	120	AR2217	69.0	3,105	-	73.0	3,255	-
6.5mm BR 24" Barrel								
	90	AR2219	29.0	2,750	-	31.0	2,920	-
	90	Bench Mark 2	29.7	2,805	-	31.7	2,955	-
	90	AR2206H	31.0	2,715	-	33.0C	2,925	-
	90	AR2208	31.0	2,670	-	33.0C	2,835	-
	95	AR2219	28.8	2,720	-	30.7	2,895	-
	95	Bench Mark 2	29.0	2,740	-	31.0	2,870	-
	95	AR2206H	31.0	2,775	-	33.0C	2,945	-
	95	AR2208	31.0	2,700	-	33.0C	2,845	-
	100	AR2219	28.0	2,600	-	29.7	2,770	-
	100	Bench Mark 2	28.3	2,585	-	30.2	2,750	-
	100	AR2206H	31.0	2,700	-	33.0C	2,880	-
	100	AR2208	31.0	2,635	-	33.0C	2,795	-
	107	AR2219	27.2	2,565	-	29.0	2,740	-
	107	Bench Mark 2	27.8	2,585	-	29.6	2,740	-
	107	AR2206H	29.8	2,625	-	31.8C	2,810	-
	107	AR2208	30.5	2,660	-	32.5C	2,800	-
	120	AR2219	26.7	2,405	-	28.5	2,550	-
	120	Bench Mark 2	27.2	2,445	-	29.0	2,570	-
	120	AR2206H	29.0	2,475	-	31.0C	2,625	-
	120	AR2208	29.0	2,410	-	31.0C	2,540	-
	129	AR2219	26.0	2,295	-	27.7	2,415	-
	129	Bench Mark 2	26.3	2,285	-	28.0	2,410	-
	129	AR2206H	28.4	2,380	-	30.3C	2,500	-
	129	AR2208	29.0	2,370	-	31.0C	2,495	-
	140	AR2219	25.0	2,200	-	26.7	2,300	-
	140	Bench Mark 2	26.3	2,235	-	28.0	2,360	-
	140	AR2206H	28.2	2,300	-	30.0C	2,420	-
	140	AR2208	28.3	2,280	-	30.2C	2,415	-
	142	AR2219	24.5	2,200	-	26.1	2,295	-
	142	Bench Mark 2	25.2	2,230	-	26.9	2,325	-
	142	AR2206H	27.3	2,270	-	29.0	2,395	-
	142	AR2208	27.9	2,250	-	29.7C	2,395	-
6.5 x 50 Japanese 32" Barrel								
	100	AR2206H	35.0	2,410	-	37.0	2,715	-
	100	AR2213SC	39.0	2,350	-	41.0	2,425	-
	120	AR2206H	33.0	2,370	-	35.0	2,505	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS			
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE	
6.5 x 50 Japanese	32" Barrel (cont.)								
	120	AR2213SC	39.0	2,300	-	41.0	2,430	-	
	140	AR2206H	32.0	2,185	-	34.0	2,405	-	
	140	AR2213SC	38.0	2,220	-	41.0	2,390	-	
	160	AR2206H	30.0	2,120	-	32.0	2,335	-	
	160	AR2213SC	36.0	2,200	-	38.0	2,395	-	
6.5mm x 52 Mannlicher-Carcano	21" Barrel								
	100	AR2206H	31.0	2,205	-	33.0	2,395	-	
	100	AR2213SC	40.0	2,190	-	43.0	2,415	-	
	120	AR2206H	28.0	1,960	-	30.0	2,150	-	
	120	AR2213SC	38.0	2,020	-	41.0	2,225	-	
	140	AR2206H	28.0	1,905	-	30.0	2,090	-	
	140	AR2213SC	37.0	1,920	-	40.0	2,190	-	
	160	AR2206H	27.0	1,805	-	30.0	1,990	-	
	160	AR2213SC	37.0	1,890	-	39.0	2,085	-	
6.5mm x 54 (Mannlicher-Schoenauer)	18" Barrel								
	100	AR2206	-	-	-	38.0	2,800	-	
	100	AR2208	-	-	-	40.0	2,800	-	
	120	AR2206	-	-	-	36.5	2,700	-	
	120	AR2208	-	-	-	38.5	2,700	-	
	120	AR2209	-	-	-	42.5	2,700	-	
	129-130	AR2206	-	-	-	35.5	2,500	-	
	129-130	AR2208	-	-	-	37.5	2,500	-	
	129-130	AR2209	-	-	-	41.5	2,500	-	
	140	AR2206	-	-	-	33.5	2,350	-	
	140	AR2208	-	-	-	35.5	2,350	-	
	140	AR2209	-	-	-	39.5	2,350	-	
	160	AR2206	-	-	-	31.5	2,100	-	
	160	AR2208	-	-	-	33.5	2,100	-	
	160	AR2209	-	-	-	37.5	2,100	-	
	6.5 Creedmore	24" Barrel							
		95	AR2206H	37.0	3,060	50,400 psi	41.0	3,275	60,300 psi
95		AR2208	39.0	3,050	49,000 psi	43.0	3,285	60,100 psi	
95		AR2209	43.0	2,970	45,000 psi	47.0C	3,225	56,100 psi	
120		AR2206H	34.0	2,670	50,500 psi	37.4	2,860	60,400 psi	
120		AR2208	36.0	2,670	49,600 psi	40.2	2,890	60,400 psi	
120		AR2209	40.5	2,710	47,700 psi	45.0C	2,965	60,800 psi	
123		AR2208	36.0	2,710	51,100 psi	39.8	2,890	59,200 psi	
140		AR2206H	30.0	2,315	46,800 psi	34.0	2,555	60,400 psi	
140		AR2208	32.0	2,370	47,400 psi	35.8	2,600	59,900 psi	

**C** = Compressed Load: **L** = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6.5 Creedmore 24" Barrel (cont.)								
	140	AR2209	36.0	2,465	49,200 psi	40.0C	2,660	59,200 psi
	142	AR2206H	32.4	2,425	49,800 psi	34.5	2,550	58,000 psi
	142	AR2208	34.5	2,490	52,600 psi	36.3	2,600	60,100 psi
	142	AR2209	38.8	2,575	52,300 psi	41.5	2,695	59,800 psi
260 Remington 24" Barrel								
	95	Bench Mark 2	40.0	3,190	51,400 psi	43.5	3,390	59,600 psi
	95	AR2206	37.0	3,045	51,200 psi	39.5	3,225	58,400 psi
	95	AR2206H	38.0	3,070	51,300 psi	40.8	3,225	58,500 psi
	95	AR2208	39.0	3,070	50,200 psi	42.0	3,245	58,500 psi
	95	AR2209	47.0	3,135	51,200 psi	49.7	3,285	58,100 psi
	100	Bench Mark 2	38.0	2,980	50,700 psi	41.0	3,170	59,900 psi
	100	AR2206	33.0	2,790	51,150 psi	37.0	3,055	58,750 psi
	100	AR2206H	35.0	2,810	51,300 psi	38.0	2,975	58,800 psi
	100	AR2208	36.5	2,860	52,000 psi	39.5	3,030	58,900 psi
	100	AR2209	42.0	2,945	52,900 psi	45.0	3,075	58,200 psi
	100	AR2213SC	46.0	2,925	52,800 psi	48.8C	3,055	58,600 psi
	107	Bench Mark 2	40.0	3,160	50,900 psi	42.5	3,230	59,500 psi
	107	AR2206	37.0	2,945	51,800 psi	39.5	3,055	58,200 psi
	107	AR2206H	38.0	2,950	51,900 psi	40.7	3,075	58,000 psi
	107	AR2208	38.5	2,945	49,800 psi	41.5	3,125	58,700 psi
	107	AR2209	46.0	2,995	50,400 psi	49.0	3,165	58,700 psi
	107	AR2213SC	50.0	2,965	50,300 psi	51.0C	3,030	54,000 psi
	120	Bench Mark 2	37.0	2,770	51,200 psi	40.0	2,935	59,500 psi
	120	AR2206	34.3	2,555	51,700 psi	37.0	2,795	58,750 psi
	120	AR2206H	35.0	2,665	51,900 psi	38.0	2,815	58,900 psi
	120	AR2208	36.0	2,715	50,300 psi	39.0	2,880	58,300 psi
	120	AR2209	43.5	2,815	51,400 psi	46.5	2,960	58,200 psi
	120	AR2213SC	47.0	2,810	52,100 psi	50.0C	2,955	59,200 psi
	120	AR2217	49.0	2,710	44,600 psi	51.0C	2,810	49,300 psi
	125	AR2206	33.2	2,615	54,150 psi	36.2	2,735	58,800 psi
	125	AR2206H	34.0	2,625	54,300 psi	37.0	2,745	58,900 psi
	125	AR2208	34.5	2,625	51,200 psi	37.5	2,785	58,400 psi
	125	AR2209	41.0	2,715	50,900 psi	44.3	2,870	57,900 psi
	125	AR2213SC	45.0	2,725	51,600 psi	48.0C	2,860	58,000 psi
	125	AR2217	48.0	2,685	46,300 psi	51.0C	2,820	53,300 psi
	140	AR2206	31.3	2,350	50,500 psi	33.5	2,510	58,400 psi
	140	AR2206H	32.0	2,365	50,500 psi	34.3	2,520	58,400 psi
	140	AR2208	34.0	2,470	53,300 psi	36.0	2,580	59,400 psi
	140	AR2209	39.0	2,530	51,900 psi	42.0	2,675	58,800 psi

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
260 Remington 24" Barrel (cont.)								
	140	AR2213SC	43.0	2,570	53,000 psi	45.7	2,685	59,000 psi
	140	AR2217	48.0	2,620	51,200 psi	50.5	2,730	57,000 psi
	142	AR2206	33.3	2,480	52,000 psi	35.4	2,590	58,200 psi
	142	AR2206H	34.0	2,485	52,000 psi	36.2	2,597	58,200 psi
	142	AR2208	35.0	2,540	54,000 psi	37.5	2,645	59,100 psi
	142	AR2209	41.5	2,590	50,100 psi	44.5	2,735	58,000 psi
	142	AR2213SC	45.0	2,600	50,900 psi	48.0C	2,750	58,700 psi
	160	AR2209	40.0	2,415	52,100 psi	43.0	2,540	58,200 psi
	160	AR2213SC	43.0	2,420	50,900 psi	46.0	2,540	58,100 psi
	160	AR2217	48.0	2,500	50,500 psi	50.0C	2,595	56,400 psi
6.5mm x 54 Mauser 20" Barrel								
	120-125	AR2206	-	-	-	33.0	2,500	-
	120-125	AR2208	-	-	-	35.0	2,500	-
	140	AR2206	-	-	-	30.0	2,200	-
	140	AR2208	-	-	-	32.0	2,200	-
6.5mm Swedish (6.5mm x 55) 24" Barrel								
	85	AR2206H	40.0	3,030	-	44.0	3,370	-
	85	AR2208	40.0	3,130	-	44.0	3,350	-
	85	AR2209	47.0	2,910	-	52.0C	3,285	-
	100	AR2206H	37.0	2,820	-	41.0	3,035	-
	100	AR2208	38.0	2,890	-	42.0	3,175	-
	100	AR2209	45.0	2,725	-	50.0C	3,170	-
	100	AR2213SC	46.0	2,550	-	51.0C	2,885	-
	107	AR2206H	37.0	2,775	-	39.7	2,945	-
	107	AR2208	38.0	2,740	-	42.0	2,950	-
	107	AR2209	43.0	2,705	-	48.0C	3,035	-
	107	AR2213SC	46.0	2,590	-	51.0C	2,910	-
	120	AR2206H	34.0	2,570	-	37.8	2,715	-
	120	AR2208	35.0	2,580	-	39.0	2,810	-
	120	AR2209	41.5	2,545	-	46.0	2,790	-
	120	AR2213SC	44.5	2,530	-	49.5C	2,800	-
	129	AR2206H	33.0	2,375	-	36.3	2,560	-
	129	AR2208	34.0	2,470	-	37.5	2,665	-
	129	AR2209	40.0	2,430	-	45.5	2,705	-
	129	AR2213SC	44.0	2,450	-	48.5C	2,690	-
	129	AR2217	48.0	2,550	-	51.0	2,705	-
	140	AR2206H	32.5	2,305	-	35.8	2,495	-
	140	AR2208	32.5	2,310	-	36.0	2,530	-
	140	AR2209	39.5	2,420	-	44.0	2,620	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6.5mm Swedish (6.5mm x 55) 24" Barrel (cont.)								
	140	AR2213SC	42.5	2,380	-	47.0	2,585	-
	140	AR2217	46.5	2,425	-	51.5C	2,650	-
	142	AR2206H	32.5	2,310	-	35.8	2,510	-
	142	AR2208	34.0	2,335	-	38.0	2,560	-
	142	AR2209	39.0	2,425	-	43.7	2,655	-
	142	AR2213SC	42.5	2,385	-	47.0	2,605	-
	142	AR2217	48.0	2,455	-	51.5C	2,600	-
	160	AR2208	32.5	2,175	-	36.0	2,355	-
	160	AR2209	40.0	2,315	-	43.0	2,445	-
	160	AR2213SC	44.0	2,325	-	48.0C	2,525	-
	160	AR2217	45.0	2,265	-	50.0C	2,520	-
6.5mm/06 24" Barrel								
	85	AR2206H	43.0	3,245	49,900 psi	46.5	3,440	60,600 psi
	85	AR2208	48.0	3,455	58,400 psi	52.0	3,590	62,500 psi
	85	AR2209	53.0	3,335	52,300 psi	57.5	3,575	62,300 psi
	95	AR2206H	43.0	3,210	55,400 psi	46.0	3,360	63,000 psi
	95	AR2208	44.0	3,165	51,600 psi	49.0	3,415	63,100 psi
	95	AR2209	50.0	3,205	52,100 psi	54.5	3,435	63,300 psi
	100	AR2206H	42.0	3,085	56,400 psi	44.0	3,205	62,900 psi
	100	AR2208	43.0	3,070	53,000 psi	47.0	3,270	63,300 psi
	100	AR2209	49.0	3,120	53,800 psi	53.0	3,315	63,300 psi
	100	AR2213SC	53.0	3,085	53,200 psi	57.7	3,305	63,400 psi
	107	AR2208	42.0	2,995	52,700 psi	45.8	3,185	62,700 psi
	107	AR2209	47.0	3,020	52,600 psi	51.5	3,235	62,700 psi
	107	AR2213SC	51.0	2,985	51,800 psi	55.5	3,200	62,500 psi
	107	AR2217	56.0	2,945	49,300 psi	60.0C	3,140	58,700 psi
	120	AR2209	45.0	2,825	54,300 psi	49.0	2,995	63,300 psi
	120	AR2213SC	48.0	2,765	51,400 psi	52.5	2,970	62,300 psi
	120	AR2217	55.0	2,835	53,900 psi	58.5C	2,985	62,700 psi
	129	AR2209	43.0	2,675	51,400 psi	47.0	2,875	62,500 psi
	129	AR2213SC	47.0	2,720	54,100 psi	51.0	2,890	62,900 psi
	129	AR2217	51.0	2,685	53,800 psi	55.5C	2,885	62,700 psi
	140	AR2209	42.0	2,560	52,400 psi	45.5	2,735	62,700 psi
	140	AR2213SC	45.0	2,540	52,300 psi	49.5	2,730	62,300 psi
	140	AR2217	49.0	2,570	52,900 psi	53.5C	2,760	62,600 psi
	142	AR2209	42.0	2,570	51,300 psi	46.0	2,770	62,900 psi
	142	AR2213SC	45.0	2,560	50,000 psi	50.3	2,795	62,900 psi
	142	AR2217	49.0	2,555	49,800 psi	55.0C	2,815	63,300 psi
	160	AR2213SC	46.0	2,460	52,700 psi	50.0	2,625	62,600 psi

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6.5mm/06 24" Barrel (cont.)								
	160	AR2217	51.0	2,490	53,600 psi	55.0	2,650	62,400 psi
6.5-284 24" Barrel								
	85	AR2206H	43.0	3,210	-	46.5	3,420	-
	85	AR2208	48.0	3,380	-	52.0	3,585	-
	85	AR2209	53.0	3,260	-	57.5	3,530	-
	95	AR2206H	43.0	3,195	-	46.0	3,320	-
	95	AR2208	44.0	3,165	-	49.0	3,380	-
	95	AR2209	50.0	3,090	-	54.5	3,350	-
	100	AR2206H	42.0	3,060	-	44.0	3,145	-
	100	AR2208	43.0	3,085	-	47.0	3,230	-
	100	AR2209	49.0	3,005	-	53.0	3,240	-
	100	AR2213SC	53.0	2,970	-	57.7	3,210	-
	107	AR2208	42.0	2,970	-	45.8	3,125	-
	107	AR2209	47.0	2,900	-	51.5	3,120	-
	107	AR2213SC	51.0	2,840	-	55.5	3,085	-
	107	AR2217	56.0	2,810	-	60.0C	2,985	-
	120	AR2209	45.0	2,745	-	49.0	2,900	-
	120	AR2213SC	48.0	2,650	-	52.5	2,870	-
	120	AR2217	55.0	2,745	-	58.5C	2,900	-
	129	AR2209	43.0	2,670	-	47.0	2,865	-
	129	AR2213SC	47.0	2,670	-	51.0	2,860	-
	129	AR2217	51.0	2,640	-	55.5C	2,820	-
	140	AR2209	42.0	2,550	-	45.5	2,720	-
	140	AR2213SC	45.0	2,520	-	49.5	2,720	-
	140	AR2217	49.0	2,505	-	53.5C	2,695	-
	142	AR2209	42.0	2,585	-	46.0	2,735	-
	142	AR2213SC	45.0	2,480	-	50.3	2,715	-
	142	AR2217	49.0	2,435	-	55.0C	2,700	-
	160	AR2213SC	46.0	2,435	-	50.0	2,580	-
	160	AR2217	51.0	2,455	-	55.0	2,620	-
6.5mm Remington Magnum 26" Barrel								
	85	AR2206H	47.0	3,320	-	51.0	3,615	-
	85	AR2209	54.0	3,220	-	57.0	3,565	-
	85	AR2213SC	56.0	3,200	-	61.0	3,570	-
	100	AR2206H	46.0	3,185	-	50.0	3,475	-
	100	AR2209	51.0	3,070	-	55.0	3,330	-
	100	AR2213SC	55.0	3,070	-	60.0	3,415	-
	120	AR2206H	42.5	2,870	-	46.0	3,080	-
	120	AR2209	49.0	2,780	-	52.0	3,080	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6.5mm Remington Magnum 26" Barrel (cont.)								
	120	AR2213SC	54.0	2,985	-	59.0	3,285	-
	129	AR2206H	40.5	2,710	-	44.0	2,935	-
	129	AR2209	47.0	2,710	-	51.0	2,995	-
	129	AR2213SC	53.5	2,855	-	58.0	3,155	-
	140	AR2206H	38.5	2,570	-	42.0	2,750	-
	140	AR2209	45.0	2,515	-	49.0	2,780	-
	140	AR2213SC	49.5	2,710	-	54.0	2,945	-
264 Winchester Magnum 26" Barrel								
	85	AR2206H	50.5	3,265	-	55.0	3,625	-
	85	AR2209	59.0	3,395	-	61.0	3,670	-
	85	AR2213SC	67.0	3,305	-	73.0	3,810	-
	85	AR2217	74.0	3,270	-	78.0	3,480	-
	100	AR2206H	49.0	2,970	-	53.0	3,405	-
	100	AR2209	56.0	3,195	-	59.0	3,570	-
	100	AR2213SC	65.5	3,240	-	71.0	3,680	-
	100	AR2217	72.0	3,165	-	77.0	3,430	-
	120	AR2209	54.0	3,030	-	57.0	3,190	-
	120	AR2213SC	60.0	3,025	-	65.0	3,370	-
	120	AR2217	67.0	3,060	-	72.0	3,185	-
	129	AR2209	53.0	3,080	-	56.0	3,175	-
	129	AR2213SC	62.0	2,905	-	65.0	3,205	-
	129	AR2217	67.0	3,025	-	71.0	3,185	-
	140	AR2209	50.0	2,765	-	53.0	2,965	-
	140	AR2213SC	56.0	2,795	-	61.0	3,065	-
	140	AR2217	63.0	2,845	-	68.0	3,020	-
	160	AR2209	47.0	2,555	-	50.0	2,685	-
	160	AR2213SC	52.5	2,570	-	57.0	2,885	-
	160	AR2217	61.0	2,540	-	65.0	2,860	-
6.5mm x 68 Schuler 25" Barrel								
	85	AR2209	-	-	-	65.0	3,700	-
	85	AR2213SC	-	-	-	73.0	3,705	-
	100	AR2213SC	-	-	-	71.0	3,550	-
	120	AR2213SC	-	-	-	68.0	3,310	-
	140	AR2213SC	-	-	-	63.0	2,995	-
6.8mm Remington SPC 24" Barrel								
	90	AR2205	21.0	2,590	44,200 psi	23.9	2,795	51,000 psi
	90	AR2207	26.0	2,810	47,700 psi	28.6C	3,010	54,000 psi
	90	AR2219	29.0	2,765	42,100 psi	31.0C	2,930	49,500 psi
	90	Bench Mark 2	29.0	2,705	38,900 psi	31.0C	2,855	45,900 psi

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
6.8mm Remington SPC 24" Barrel (cont.)								
	100	AR2205	20.0	2,430	46,800 psi	22.9	2,645	53,000 psi
	100	AR2207	24.0	2,540	40,500 psi	26.5	2,790	52,900 psi
	100	AR2219	27.0	2,500	37,700 psi	30.0C	2,805	52,300 psi
	100	Bench Mark 2	28.0	2,590	42,000 psi	30.0C	2,755	51,200 psi
	110	AR2207	23.0	2,430	40,600 psi	25.3C	2,650	52,000 psi
	110	AR2219	27.0	2,570	47,600 psi	29.0C	2,700	53,600 psi
	110	Bench Mark 2	27.0	2,520	44,000 psi	28.8C	2,665	52,000 psi
	110	AR2206H	27.0	2,335	33,900 psi	29.0C	2,550	42,400 psi
	115	AR2207	22.0	2,415	47,800 psi	24.0C	2,535	52,300 psi
	115	AR2219	26.0	2,420	43,500 psi	28.2C	2,610	53,300 psi
	115	Bench Mark 2	26.0	2,400	42,400 psi	28.5C	2,580	51,800 psi
	115	AR2206H	27.0C	2,300	34,300 psi	29.0C	2,495	42,800 psi
270/303 24" Barrel								
	100	AR2206	-	-	-	35.0	2,750	-
	100	AR2208	-	-	-	39.0	2,750	-
	100	AR2209	-	-	-	44.0	2,750	-
	130	AR2206	-	-	-	33.0	2,500	-
	130	AR2208	-	-	-	36.5	2,500	-
	130	AR2209	-	-	-	42.5	2,500	-
	150	AR2208	-	-	-	33.5	2,350	-
	150	AR2209	-	-	-	40.0	2,350	-
WARNING: For SMLE Actions, reduce these loads by at least two grains.								
270 Winchester 24" Barrel								
	90	AR2206H	50.0	3,480	-	53.0	3,595	-
	90	AR2208	51.0	3,410	-	55.0	3,595	-
	90	AR2209	58.0	3,400	-	62.0C	3,605	-
	100	AR2206H	47.0	3,295	-	50.0	3,400	-
	100	AR2208	48.0	3,230	-	52.0	3,395	-
	100	AR2209	56.0	3,260	-	59.4	3,400	-
	110	AR2206H	45.0	3,115	-	47.5	3,215	-
	110	AR2208	43.0	3,070	-	48.7	3,250	-
	110	AR2209	54.0	3,165	-	57.0	3,265	-
	110	AR2213SC	58.0	3,055	-	62.0C	3,215	-
	120	AR2206H	42.0	2,800	-	45.0	2,950	-
	120	AR2208	44.0	2,860	-	47.0	3,010	-
	120	AR2209	51.0	2,885	-	55.0	3,070	-
	120	AR2213SC	58.0	2,920	-	62.0C	3,110	-
	130	AR2206H	42.0	2,780	-	45.0	2,920	-
	130	AR2208	43.0	2,795	-	46.0	2,930	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
270 Winchester 24" Barrel (cont.)								
	130	AR2209	51.0	2,865	-	54.3	3,010	-
	130	AR2213SC	56.0	2,845	-	60.0C	3,020	-
	130	AR2217	61.0	2,900	-	64.0C	3,025	-
	135	AR2206H	41.0	2,735	-	44.0	2,880	-
	135	AR2208	41.0	2,700	-	45.0	2,900	-
	135	AR2209	50.0	2,835	-	53.5	2,995	-
	135	AR2213SC	55.0	2,810	-	59.5C	3,010	-
	135	AR2217	61.0	2,915	-	63.0C	3,010	-
	140	AR2206H	40.0	2,625	-	42.6	2,770	-
	140	AR2208	41.0	2,625	-	43.7	2,770	-
	140	AR2209	49.0	2,735	-	52.0	2,870	-
	140	AR2213SC	54.0	2,715	-	58.0C	2,890	-
	140	AR2217	59.0	2,770	-	63.0C	2,980	-
	150	AR2209	46.0	2,575	-	49.0	2,725	-
	150	AR2213SC	52.0	2,650	-	55.7	2,805	-
	150	AR2217	55.0	2,690	-	59.0C	2,830	-
	160	AR2209	46.0	2,500	-	49.0	2,645	-
	160	AR2213SC	50.0	2,510	-	54.0	2,675	-
	160	AR2217	55.0	2,615	-	59.0C	2,765	-
	180	AR2213SC	47.0	2,360	-	50.5	2,500	-
	180	AR2217	50.0	2,405	-	54.0	2,540	-
270 Winchester Short Magnum 24" Barrel								
	90	AR2206H	53.0	3,510	52,900 psi	56.5	3,690	62,500 psi
	90	AR2208	57.0	3,610	57,600 psi	60.5	3,735	62,800 psi
	90	AR2209	64.0	3,570	50,000 psi	67.5	3,735	62,800 psi
	90	AR2213SC	69.0	3,525	54,900 psi	73.0C	3,705	63,400 psi
	100	AR2206H	51.0	3,340	53,200 psi	54.5	3,505	62,500 psi
	100	AR2208	55.0	3,415	55,700 psi	58.5	3,575	63,300 psi
	100	AR2209	62.0	3,460	55,000 psi	65.5	3,585	62,900 psi
	100	AR2213SC	67.0	3,350	52,900 psi	71.0C	3,545	62,700 psi
	110	AR2208	53.0	3,275	57,000 psi	56.0	3,405	63,200 psi
	110	AR2209	59.0	3,285	55,900 psi	63.0	3,435	63,200 psi
	110	AR2213SC	64.0	3,265	56,300 psi	67.5	3,405	63,000 psi
	110	AR2217	71.0	3,280	55,400 psi	73.0C	3,360	60,400 psi
	120	AR2208	51.0	3,080	56,400 psi	53.5	3,220	63,100 psi
	120	AR2209	57.0	3,120	55,900 psi	60.5	3,260	63,200 psi
	120	AR2213SC	62.0	3,120	57,000 psi	65.5	3,250	63,200 psi
	120	AR2217	69.0	3,175	57,600 psi	72.5C	3,290	63,100 psi
	130	AR2208	51.0	3,040	56,400 psi	54.0	3,170	63,200 psi

C = Compressed Load: L = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
270 Winchester Short Magnum		24" Barrel (cont.)						
	130	AR2209	57.0	3,095	56,600 psi	60.5	3,225	63,500 psi
	130	AR2213SC	63.0	3,085	56,300 psi	67.0	3,230	63,400 psi
	130	AR2217	71.0	3,100	55,400 psi	73.0C	3,170	58,700 psi
	135	AR2208	51.0	3,000	54,800 psi	54.0	3,135	63,000 psi
	135	AR2209	58.0	3,095	57,000 psi	61.5	3,210	63,100 psi
	135	AR2213SC	62.0	3,055	55,400 psi	65.5	3,190	62,900 psi
	135	AR2217	69.0	3,055	54,400 psi	73.0C	3,205	62,600 psi
	140	AR2209	54.0	2,930	54,500 psi	58.0	3,090	63,100 psi
	140	AR2213SC	59.0	2,975	57,000 psi	62.5	3,085	63,000 psi
	140	AR2217	66.0	2,985	55,700 psi	70.0C	3,135	63,500 psi
	140	AR2225	68.0	3,015	53,200 psi	71.0C	3,165	61,300 psi
	150	AR2209	53.0	2,845	55,600 psi	56.5	2,980	63,000 psi
	150	AR2213SC	56.0	2,805	54,500 psi	60.0	2,960	63,100 psi
	150	AR2217	64.0	2,865	54,600 psi	67.5C	3,000	62,800 psi
	150	AR2225	66.0	2,910	53,300 psi	70.0C	3,070	63,000 psi
	160	AR2209	52.0	2,735	56,100 psi	55.0	2,835	62,600 psi
	160	AR2213SC	57.0	2,785	58,400 psi	60.0	2,875	63,300 psi
	160	AR2217	63.0	2,800	57,400 psi	66.5	2,915	63,200 psi
	160	AR2225	65.0	2,825	53,400 psi	68.5	2,990	62,600 psi
	180	AR2213SC	53.0	2,560	56,300 psi	56.0	2,665	62,800 psi
	180	AR2217	59.0	2,590	56,000 psi	63.0	2,720	62,800 psi
	180	AR2225	62.0	2,630	50,900 psi	65.0C	2,810	63,000 psi
	180	AR2218	67.0	2,565	49,800 psi	70.0C	2,730	61,700 psi
270 Weatherby Magnum		26" Barrel						
	90	AR2206H	63.0	3,385	-	67.0	3,645	-
	90	AR2209	66.0	3,315	-	70.0	3,630	-
	90	AR2213SC	72.0	3,385	-	78.0	3,630	-
	90	AR2217	78.0	3,185	-	81.0	3,270	-
	100	AR2206H	63.0	3,375	-	66.0	3,600	-
	100	AR2209	65.0	3,280	-	69.0	3,510	-
	100	AR2213SC	74.0	3,480	-	77.0	3,665	-
	100	AR2217	77.0	3,060	-	81.0	3,285	-
	110	AR2209	64.0	3,215	-	68.0	3,475	-
	110	AR2213SC	73.0	3,395	-	76.0	3,480	-
	110	AR2217	76.0	3,045	-	81.0	3,240	-
	130	AR2209	62.0	3,110	-	66.0	3,260	-
	130	AR2213SC	67.0	3,085	-	70.0	3,205	-
	130	AR2217	76.0	2,940	-	81.0	3,260	-
	140	AR2209	60.0	2,925	-	64.0	3,140	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
270 Weatherby Magnum 26" Barrel (cont.)								
	140	AR2213SC	65.0	2,905	-	68.0	3,110	-
	140	AR2217	75.0	2,850	-	80.0	3,145	-
	150	AR2209	60.0	2,845	-	63.0	2,985	-
	150	AR2213SC	65.0	2,870	-	68.0	3,055	-
	150	AR2217	75.0	2,900	-	79.0	3,130	-
	160	AR2209	58.0	2,665	-	61.0	2,740	-
	160	AR2213SC	62.0	2,675	-	65.0	2,900	-
	160	AR2217	74.0	2,870	-	78.0	3,050	-
7mm BR Remington 24" Barrel								
	100	AR2207	26.0	2,525	-	28.5	2,745	-
	100	AR2219	29.0	2,515	-	31.5C	2,740	-
	100	Bench Mark 2	29.0	2,440	-	32.0C	2,720	-
	100	AR2206H	31.0	2,580	-	33.0C	2,705	-
	115	AR2207	26.0	2,500	-	28.5	2,685	-
	115	AR2219	29.0	2,475	-	31.5C	2,695	-
	115	Bench Mark 2	30.0	2,525	-	32.0C	2,675	-
	115	AR2206H	31.0	2,500	-	33.0C	2,645	-
	120	AR2207	25.5	2,400	-	27.5	2,600	-
	120	AR2219	28.0	2,430	-	30.8	2,635	-
	120	Bench Mark 2	29.0	2,455	-	31.0	2,590	-
	120	AR2206H	30.0	2,435	-	32.7C	2,650	-
	130	AR2207	25.0	2,345	-	27.0	2,515	-
	130	AR2219	28.0	2,375	-	30.0C	2,545	-
	130	Bench Mark 2	28.0	2,360	-	30.2C	2,520	-
	130	AR2206H	30.0	2,430	-	32.0C	2,560	-
	139	AR2207	24.0	2,275	-	26.0	2,390	-
	139	AR2219	26.5	2,265	-	28.5C	2,425	-
	139	Bench Mark 2	27.5	2,280	-	29.7C	2,420	-
	139	AR2206H	29.0	2,320	-	31.0C	2,450	-
	145	AR2219	27.0	2,220	-	28.5C	2,350	-
	145	Bench Mark 2	27.5	2,270	-	29.7C	2,430	-
	145	AR2206H	29.0	2,320	-	31.0C	2,455	-
	150	AR2219	26.5	2,215	-	28.5C	2,365	-
	150	Bench Mark 2	27.0	2,230	-	29.5C	2,385	-
	150	AR2206H	28.5	2,245	-	30.5C	2,385	-
	162	AR2219	26.0	2,130	-	28.3	2,290	-
	162	Bench Mark 2	27.0	2,145	-	29.0C	2,285	-
	162	AR2206H	27.5	2,130	-	29.5C	2,295	-
	168	AR2219	26.0	2,110	-	28.0	2,250	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm BR Remington 24" Barrel (cont.)								
	168	Bench Mark 2	26.5	2,120	-	28.5	2,245	-
	168	AR2206H	28.0	2,155	-	30.0C	2,290	-
7-30 Waters 24" Barrel								
	100	AR2219	27.0	2,445	-	30.0	2,680	-
	100	Bench Mark 2	27.0	2,405	-	30.5	2,645	-
	100	AR2206H	34.0	2,705	-	37.0C	2,910	-
	100	AR2208	35.0	2,660	-	38.0C	2,815	-
	120	AR2219	26.0	2,275	-	29.0	2,495	-
	120	Bench Mark 2	26.5	2,265	-	29.5	2,475	-
	120	AR2206H	31.0	2,415	-	34.5	2,655	-
	120	AR2208	34.0	2,480	-	37.0C	2,655	-
	120	AR2209	37.0	2,460	-	41.0	2,725	-
	120	AR2213SC	37.0	2,310	-	41.0	2,560	-
	130	AR2219	25.0	2,145	-	27.3	2,320	-
	130	Bench Mark 2	25.0	2,080	-	28.0	2,315	-
	130	AR2206H	31.0	2,360	-	33.4C	2,530	-
	130	AR2208	32.0	2,335	-	35.6C	2,560	-
	139	AR2219	24.0	1,980	-	27.0	2,215	-
	139	Bench Mark 2	25.0	2,050	-	28.0	2,220	-
	139	AR2206H	30.0	2,250	-	33.0	2,435	-
	139	AR2208	32.0	2,250	-	35.5C	2,470	-
	139	AR2209	34.5	2,195	-	38.0	2,420	-
	139	AR2213SC	35.5	2,170	-	39.0	2,385	-
	145	Bench Mark 2	25.0	2,040	-	28.0	2,235	-
	145	AR2206H	29.0	2,240	-	32.0	2,370	-
	145	AR2208	31.0	2,220	-	34.2	2,440	-
	150	Bench Mark 2	23.0	1,930	-	26.0	2,145	-
	150	AR2206H	29.0	2,190	-	32.0C	2,350	-
	150	AR2208	31.0	2,215	-	34.2C	2,390	-
	154	AR2209	33.5	2,090	-	37.0	2,310	-
	154	AR2213SC	33.5	1,955	-	37.0	2,160	-
	168	Bench Mark 2	23.0	1,900	-	25.5	2,055	-
	168	AR2206H	28.0	2,130	-	30.2	2,225	-
	168	AR2208	29.0	2,090	-	32.0C	2,230	-
7mm-08 Remington 24" Barrel								
	100	AR2219	37.5	2,915	-	40.0	3,105	-
	100	Bench Mark 2	40.0	2,970	-	42.5	3,145	-
	100	AR2206H	41.0	3,035	-	45.0	3,285	-
	100	AR2208	42.0	3,060	-	45.7	3,280	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm-08 Remington 24" Barrel (cont.)								
	115	AR2219	39.0	2,950	-	41.0	3,055	-
	115	Bench Mark 2	40.0	2,885	-	43.5	3,105	-
	115	AR2206H	42.0	3,005	-	45.0	3,170	-
	115	AR2208	43.0	3,020	-	46.3	3,215	-
	120	Bench Mark 2	39.0	2,810	-	41.3	2,970	-
	120	AR2206H	41.0	2,930	-	43.7	3,085	-
	120	AR2208	42.5	2,995	-	45.0	3,120	-
	120	AR2209	48.0	2,895	-	50.0C	3,040	-
	130	Bench Mark 2	37.0	2,700	-	39.8	2,860	-
	130	AR2206H	39.5	2,825	-	42.0	2,955	-
	130	AR2208	40.0	2,830	-	43.5	3,005	-
	130	AR2209	47.0	2,870	-	50.0C	3,000	-
	139	Bench Mark 2	37.5	2,625	-	40.5	2,800	-
	139	AR2206H	39.0	2,680	-	42.5	2,855	-
	139	AR2208	40.5	2,720	-	43.5	2,875	-
	139	AR2209	47.0	2,730	-	50.0C	2,905	-
	140	Bench Mark 2	36.0	2,565	-	38.3	2,690	-
	140	AR2206H	38.0	2,620	-	40.5	2,770	-
	140	AR2208	39.5	2,695	-	42.2	2,820	-
	140	AR2209	45.0	2,690	-	48.0C	2,870	-
	145	Bench Mark 2	36.0	2,485	-	39.5	2,695	-
	145	AR2206H	38.5	2,600	-	41.0	2,730	-
	145	AR2208	39.0	2,640	-	41.5	2,745	-
	145	AR2209	45.0	2,645	-	48.0C	2,800	-
	150	Bench Mark 2	36.0	2,525	-	38.5	2,670	-
	150	AR2206H	37.0	2,545	-	40.5	2,725	-
	150	AR2208	38.5	2,595	-	41.3	2,730	-
	150	AR2209	45.0	2,640	-	48.5C	2,825	-
	154	Bench Mark 2	36.0	2,465	-	38.5	2,600	-
	154	AR2206H	37.0	2,485	-	39.5	2,590	-
	154	AR2208	38.5	2,530	-	41.2	2,665	-
	154	AR2209	45.0	2,595	-	48.0C	2,745	-
	154	AR2213SC	48.0	2,550	-	49.5C	2,625	-
	160	Bench Mark 2	36.0	2,455	-	38.5	2,590	-
	160	AR2206H	35.0	2,420	-	38.5	2,530	-
	160	AR2208	36.5	2,450	-	39.0	2,560	-
	160	AR2209	43.0	2,520	-	46.0	2,665	-
	160	AR2213SC	47.5	2,545	-	49.5C	2,625	-
	162	Bench Mark 2	36.0	2,440	-	38.0	2,555	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm-08 Remington 24" Barrel (cont.)								
	162	AR2206H	37.0	2,460	-	39.5	2,600	-
	162	AR2208	38.5	2,505	-	41.0	2,645	-
	162	AR2209	45.0	2,570	-	48.0C	2,715	-
	162	AR2213SC	47.5	2,500	-	48.5C	2,555	-
	168	Bench Mark 2	36.0	2,390	-	38.0	2,515	-
	168	AR2206H	36.5	2,390	-	39.0	2,505	-
	168	AR2208	37.5	2,430	-	40.0	2,540	-
	168	AR2209	44.5	2,500	-	47.2C	2,640	-
	168	AR2213SC	47.0	2,440	-	49.0C	2,545	-
	175	Bench Mark 2	34.0	2,200	-	36.5	2,335	-
	175	AR2206H	35.0	2,240	-	37.5	2,355	-
	175	AR2208	35.0	2,230	-	37.5	2,345	-
	175	AR2209	42.0	2,345	-	45.0C	2,490	-
	175	AR2213SC	47.0	2,445	-	49.0C	2,515	-
7mm Shooting Times Eastener (7mm STE) 22" Barrel								
	120	AR2206H	37.0	2,530	-	41.0	2,910	-
	120	AR2209	44.0	2,505	-	49.0	2,875	-
	139	AR2209	43.0	2,270	-	48.0	2,675	-
7mm Mauser (7mm x 57) 24" Barrel								
	100	Bench Mark 2	41.5	2,985	-	44.3	3,140	-
	100	AR2206H	44.0	3,095	-	46.0	3,210	-
	100	AR2208	45.0	3,125	-	48.0	3,250	-
	100	AR2209	51.0	2,995	-	54.0C	3,165	-
	110	Bench Mark 2	41.0	2,875	-	44.0	3,035	-
	110	AR2206H	43.0	2,940	-	46.0	3,080	-
	110	AR2208	41.0	2,900	-	45.5	3,080	-
	110	AR2209	51.0	2,865	-	54.0C	3,045	-
	120	Bench Mark 2	39.0	2,745	-	41.5	2,865	-
	120	AR2206H	40.0	2,730	-	42.0	2,860	-
	120	AR2208	41.0	2,820	-	44.0	2,980	-
	120	AR2209	48.0	2,790	-	51.0C	2,945	-
	120	AR2213SC	50.0	2,650	-	52.5C	2,775	-
	130	Bench Mark 2	39.0	2,675	-	41.2	2,765	-
	130	AR2206H	38.0	2,580	-	41.0	2,705	-
	130	AR2208	39.0	2,680	-	42.0	2,800	-
	130	AR2209	47.0	2,680	-	50.0	2,850	-
	140	Bench Mark 2	35.5	2,440	-	38.0	2,570	-
	140	AR2206H	35.0	2,375	-	37.5	2,530	-
	140	AR2208	35.0	2,370	-	37.7	2,515	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm Mauser (7mm x 57) 24" Barrel (cont.)								
	140	AR2209	43.0	2,530	-	46.5	2,680	-
	140	AR2213SC	47.0	2,520	-	49.5C	2,720	-
	150	Bench Mark 2	34.0	2,290	-	36.0	2,365	-
	150	AR2206H	34.0	2,270	-	36.0	2,385	-
	150	AR2208	34.0	2,265	-	36.0	2,370	-
	150	AR2209	41.0	2,365	-	44.0	2,515	-
	150	AR2213SC	45.0	2,410	-	48.0	2,540	-
	160	Bench Mark 2	32.5	2,175	-	34.7	2,285	-
	160	AR2206H	33.0	2,165	-	34.5	2,245	-
	160	AR2208	33.0	2,160	-	35.0	2,260	-
	160	AR2209	40.0	2,315	-	42.5	2,400	-
	160	AR2213SC	43.0	2,310	-	46.0	2,415	-
	168	Bench Mark 2	33.5	2,210	-	36.0	2,335	-
	168	AR2206H	33.0	2,120	-	34.5	2,210	-
	168	AR2208	34.5	2,230	-	37.5	2,405	-
	168	AR2209	40.0	2,265	-	42.5	2,380	-
	168	AR2213SC	43.0	2,245	-	46.0	2,395	-
	168	AR2217	49.0	2,340	-	52.0C	2,485	-
	175	AR2208	31.0	2,005	-	35.0	2,180	-
	175	AR2209	35.0	2,065	-	37.0	2,160	-
	175	AR2213SC	37.0	2,100	-	40.0	2,200	-
	175	AR2217	42.0	2,040	-	44.5	2,240	-
280 Remington (7mm Remington Express) 24" Barrel								
	100	AR2206H	47.0	3,225	-	50.5	3,420	-
	100	AR2208	48.0	3,255	-	51.3	3,435	-
	100	AR2209	56.0	3,165	-	60.5	3,380	-
	100	AR2213SC	59.0	3,055	-	63.0C	3,265	-
	115	AR2206H	46.0	3,035	-	49.0	3,175	-
	115	AR2208	46.0	3,040	-	49.0	3,170	-
	115	AR2209	54.0	3,015	-	58.5	3,235	-
	115	AR2213SC	58.0	3,015	-	62.0C	3,190	-
	120	AR2206H	44.0	2,905	-	47.0	3,020	-
	120	AR2208	44.0	2,885	-	47.2	3,030	-
	120	AR2209	52.0	2,895	-	56.0	3,115	-
	120	AR2213SC	58.0	2,930	-	62.0C	3,110	-
	130	AR2206H	42.0	2,730	-	45.3	2,880	-
	130	AR2208	42.0	2,725	-	45.5	2,890	-
	130	AR2209	50.0	2,820	-	53.2	2,940	-
	130	AR2213SC	56.0	2,845	-	59.0C	3,000	-

C = Compressed Load: L = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
280 Remington (7mm Remington Express) 24" Barrel (cont.)								
	140	AR2206H	42.0	2,710	-	45.2	2,830	-
	140	AR2208	42.0	2,675	-	45.5	2,840	-
	140	AR2209	50.0	2,755	-	53.5	2,920	-
	140	AR2213SC	54.0	2,730	-	58.5	2,930	-
	145	AR2206H	38.0	2,435	-	41.0	2,595	-
	145	AR2208	39.0	2,470	-	43.0	2,690	-
	145	AR2209	45.0	2,555	-	48.8	2,715	-
	145	AR2213SC	48.0	2,580	-	53.0	2,725	-
	150	AR2206H	38.0	2,430	-	41.5	2,590	-
	150	AR2208	39.0	2,485	-	42.0	2,610	-
	150	AR2209	46.0	2,550	-	49.7	2,700	-
	150	AR2213SC	50.0	2,580	-	53.7	2,710	-
	150	AR2217	56.0	2,645	-	60.0C	2,795	-
	160	AR2206H	38.0	2,340	-	41.5	2,535	-
	160	AR2208	39.0	2,385	-	42.5	2,555	-
	160	AR2209	46.0	2,440	-	49.5	2,610	-
	160	AR2213SC	51.0	2,465	-	55.0	2,660	-
	160	AR2217	57.0	2,515	-	61.0C	2,715	-
	162	AR2206H	38.0	2,395	-	41.5	2,570	-
	162	AR2208	39.0	2,445	-	42.0	2,575	-
	162	AR2209	46.0	2,470	-	49.5	2,615	-
	162	AR2213SC	51.0	2,515	-	54.5	2,645	-
	162	AR2217	56.0	2,525	-	60.0C	2,710	-
	168	AR2206H	38.0	2,330	-	41.2	2,470	-
	168	AR2208	40.0	2,425	-	42.2	2,525	-
	168	AR2209	46.0	2,420	-	50.0	2,585	-
	168	AR2213SC	51.0	2,460	-	54.5	2,605	-
	168	AR2217	56.0	2,505	-	60.0C	2,700	-
	175	AR2209	44.0	2,345	-	46.5	2,450	-
	175	AR2213SC	48.0	2,360	-	51.0	2,480	-
	175	AR2217	54.0	2,500	-	57.0C	2,585	-
284 Winchester 24" Barrel								
	100	AR2206H	47.0	3,215	-	51.5	3,430	-
	100	AR2208	51.0	3,240	-	54.0	3,435	-
	100	AR2209	55.0	3,095	-	60.0C	3,370	-
	100	AR2213SC	56.0	2,925	-	60.0	3,145	-
	115	AR2206H	45.0	3,000	-	50.0	3,245	-
	115	AR2208	49.0	3,095	-	53.0	3,280	-
	115	AR2209	54.0	3,010	-	59.0C	3,305	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
284 Winchester 24" Barrel (cont.)								
	120	AR2206H	43.0	2,880	-	48.0	3,120	-
	120	AR2208	45.0	2,920	-	50.5	3,160	-
	120	AR2209	53.0	3,015	-	57.0C	3,175	-
	120	AR2213SC	56.0	2,845	-	60.0C	3,020	-
	130	AR2206H	44.0	2,855	-	47.5	2,985	-
	130	AR2208	45.0	2,845	-	49.7	3,025	-
	130	AR2209	53.0	2,920	-	57.0C	3,095	-
	130	AR2213SC	56.0	2,790	-	60.0C	2,925	-
	139	AR2206H	43.0	2,810	-	47.0	2,945	-
	139	AR2208	45.0	2,775	-	49.5	2,995	-
	139	AR2209	52.0	2,840	-	57.0C	3,080	-
	139	AR2213SC	56.0	2,760	-	60.0C	2,925	-
	145	AR2206H	43.0	2,735	-	46.5	2,855	-
	145	AR2208	45.0	2,770	-	49.0	2,905	-
	145	AR2209	50.0	2,745	-	55.0	2,965	-
	145	AR2213SC	55.0	2,735	-	60.0C	2,945	-
	150	AR2206H	43.0	2,720	-	46.5	2,820	-
	150	AR2208	44.0	2,675	-	48.7	2,865	-
	150	AR2209	50.0	2,720	-	54.7C	2,915	-
	150	AR2213SC	55.0	2,685	-	59.0C	2,855	-
	160	AR2206H	40.0	2,390	-	43.5	2,530	-
	160	AR2208	42.0	2,435	-	45.8	2,595	-
	160	AR2209	47.0	2,545	-	51.0C	2,670	-
	160	AR2213SC	50.0	2,450	-	55.0C	2,625	-
	162	AR2206H	40.0	2,505	-	44.2	2,705	-
	162	AR2208	42.0	2,560	-	47.0	2,765	-
	162	AR2209	50.0	2,715	-	53.5C	2,850	-
	162	AR2213SC	53.0	2,615	-	58.0C	2,815	-
	168	AR2206H	40.0	2,530	-	44.0	2,690	-
	168	AR2208	42.0	2,575	-	47.0	2,735	-
	168	AR2209	50.0	2,670	-	53.5C	2,820	-
	168	AR2213SC	53.0	2,600	-	58.0C	2,810	-
	175	AR2208	42.0	2,415	-	46.0	2,580	-
	175	AR2209	47.0	2,485	-	51.5C	2,650	-
	175	AR2213SC	52.0	2,480	-	57.0C	2,695	-
	195	AR2209	43.0	2,235	-	46.0	2,380	-
	195	AR2213SC	47.0	2,280	-	50.0	2,415	-
280 Ackley Improved 24" Barrel								
	120	AR2206H	44.7	2,975	51,800 psi	47.5	3,130	60,700 psi

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
280 Ackley Improved 24" Barrel (cont.)								
	120	AR2208	47.0	2,990	52,200 psi	50.0	3,155	61,300 psi
	120	AR2209	55.5	3,120	54,000 psi	59.0	3,270	61,400 psi
	120	AR2213SC	61.1	3,025	52,200 psi	65.0C	3,240	60,900 psi
	120	AR2217	62.0	2,925	45,100 psi	66.0C	3,120	54,400 psi
	130	AR2206H	42.8	2,815	51,200 psi	45.5	2,955	60,300 psi
	130	AR2208	44.7	2,855	53,500 psi	47.5	2,990	60,800 psi
	130	AR2209	50.8	2,915	53,300 psi	54.0	3,050	60,000 psi
	130	AR2213SC	57.3	2,910	53,800 psi	61.0	3,060	61,300 psi
	130	AR2217	60.6	2,910	51,600 psi	64.5C	3,065	59,800 psi
	140	AR2206H	42.8	2,735	53,600 psi	45.5	2,875	61,600 psi
	140	AR2208	44.6	2,755	54,100 psi	47.4	2,905	60,400 psi
	140	AR2209	52.2	2,895	55,200 psi	55.5	3,010	61,600 psi
	140	AR2213SC	58.3	2,840	53,600 psi	62.0C	3,010	61,100 psi
	140	AR2217	60.0	2,780	48,200 psi	64.0C	2,970	58,700 psi
	150	AR2206H	42.0	2,635	52,100 psi	44.6	2,775	61,200 psi
	150	AR2208	43.5	2,645	51,700 psi	46.3	2,795	59,300 psi
	150	AR2209	48.0	2,675	51,900 psi	54.5	2,910	61,700 psi
	150	AR2213SC	53.6	2,655	51,500 psi	57.0	2,775	61,200 psi
	150	AR2217	58.5	2,725	57,100 psi	62.2C	2,885	60,300 psi
	160	AR2206H	40.9	2,495	52,300 psi	43.5	2,615	59,500 psi
	160	AR2208	43.2	2,550	53,200 psi	46.0	2,685	62,000 psi
	160	AR2209	48.4	2,635	54,100 psi	51.5	2,750	60,700 psi
	160	AR2213SC	54.0	2,675	55,000 psi	57.5C	2,810	62,000 psi
	160	AR2217	57.3	2,670	54,200 psi	61.0C	2,810	61,100 psi
	162	AR2206H	40.9	2,535	53,800 psi	43.5	2,650	61,400 psi
	162	AR2208	42.6	2,570	54,600 psi	45.3	2,690	62,000 psi
	162	AR2209	47.6	2,630	52,900 psi	50.6	2,755	60,800 psi
	162	AR2213SC	53.0	2,660	54,200 psi	56.4	2,790	61,400 psi
	162	AR2217	56.8	2,655	52,300 psi	60.4	2,800	61,300 psi
	168	AR2206H	40.4	2,475	52,300 psi	43.0	2,595	60,900 psi
	168	AR2208	43.0	2,520	53,700 psi	46.0	2,670	62,100 psi
	168	AR2209	48.4	2,620	54,500 psi	51.5	2,735	61,800 psi
	168	AR2213SC	54.0	2,655	55,100 psi	57.7	2,780	62,000 psi
	168	AR2217	57.8	2,640	52,500 psi	61.5C	2,790	61,100 psi
	168	AR2225	59.0	2,650	49,000 psi	63.0C	2,830	59,300 psi
	175	AR2209	47.7	2,515	54,700 psi	50.7	2,625	62,100 psi
	175	AR2213SC	52.0	2,495	51,900 psi	55.5	2,650	62,000 psi
	175	AR2217	55.5	2,545	52,700 psi	59.0C	2,675	61,100 psi
	175	AR2225	56.7	2,605	52,400 psi	60.3C	2,745	59,800 psi

**C** = Compressed Load: **L** = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm Remington Short Action Ultra Magnum 24" Barrel								
	100	AR2206H	53.0	3,450	53,900 psi	57.0	3,630	62,800 psi
	100	AR2208	56.0	3,420	52,600 psi	60.0	3,625	63,000 psi
	100	AR2209	63.0	3,425	52,500 psi	66.5C	3,620	63,100 psi
	110	AR2206H	53.0	3,350	55,400 psi	56.5	3,495	62,700 psi
	110	AR2208	54.0	3,295	52,500 psi	59.0	3,515	63,200 psi
	110	AR2209	61.0	3,265	49,400 psi	65.0	3,500	62,600 psi
	115	AR2206H	51.0	3,210	55,700 psi	54.0	3,335	62,400 psi
	115	AR2208	54.0	3,235	54,300 psi	58.0	3,400	62,800 psi
	115	AR2209	60.0	3,195	51,100 psi	64.0	3,415	63,200 psi
	115	AR2213SC	65.0	3,210	53,800 psi	68.0C	3,340	61,400 psi
	120	AR2208	53.0	3,155	55,900 psi	56.5	3,300	63,200 psi
	120	AR2209	59.0	3,150	54,400 psi	63.0	3,330	63,500 psi
	120	AR2213SC	64.0	3,130	52,200 psi	67.5C	3,280	62,800 psi
	130	AR2208	51.0	3,055	55,700 psi	54.0	3,190	62,900 psi
	130	AR2209	57.0	3,060	53,700 psi	60.5	3,220	62,600 psi
	130	AR2213SC	61.0	3,015	52,300 psi	65.0	3,190	62,600 psi
	140	AR2208	50.0	2,945	56,500 psi	53.5	3,070	62,300 psi
	140	AR2209	56.0	2,910	50,600 psi	60.0	3,120	63,200 psi
	140	AR2213SC	61.0	2,930	52,800 psi	64.5C	3,100	63,100 psi
	145	AR2208	49.0	2,865	56,100 psi	52.5	3,000	63,400 psi
	145	AR2209	55.0	2,945	54,000 psi	58.5	3,095	62,800 psi
	145	AR2213SC	59.0	2,910	52,300 psi	63.0	3,095	63,100 psi
	150	AR2209	53.5	2,835	53,500 psi	57.0	2,985	62,800 psi
	150	AR2213SC	58.0	2,825	52,800 psi	61.5	2,990	63,000 psi
	150	AR2217	66.0	2,875	53,500 psi	68.0C	2,970	59,300 psi
	154	AR2209	53.0	2,805	54,500 psi	56.5	2,950	62,900 psi
	154	AR2213SC	58.0	2,825	55,000 psi	61.5	2,950	62,700 psi
	154	AR2217	65.0	2,865	55,700 psi	68.0C	2,960	61,900 psi
	160	AR2209	53.0	2,775	55,200 psi	56.5	2,915	63,100 psi
	160	AR2213SC	57.0	2,730	53,800 psi	60.5	2,900	62,600 psi
	160	AR2217	63.0	2,770	53,600 psi	67.0C	2,930	63,300 psi
	162	AR2209	52.0	2,760	54,700 psi	55.5	2,880	62,500 psi
	162	AR2213SC	56.5	2,750	55,100 psi	60.0	2,890	63,100 psi
	162	AR2217	64.0	2,795	54,400 psi	67.0C	2,900	60,900 psi
	168	AR2209	51.0	2,665	51,800 psi	56.0	2,855	62,900 psi
	168	AR2213SC	56.0	2,680	52,400 psi	60.5	2,850	62,800 psi
	168	AR2217	64.0	2,770	55,100 psi	67.0C	2,875	61,200 psi
	175	AR2209	50.0	2,620	53,900 psi	54.5	2,775	63,100 psi
	175	AR2213SC	54.0	2,625	54,300 psi	58.0	2,760	62,900 psi

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm Remington Short Action Ultra Magnum 24" Barrel (cont.)								
	175	AR2217	61.0	2,660	54,500 psi	65.5C	2,820	62,800 psi
	175	AR2225	62.0	2,685	51,000 psi	66.0C	2,865	62,700 psi
7mm Winchester Short Magnum 24" Barrel								
	100	AR2206H	54.0	3,440	56,100 psi	57.5	3,590	62,500 psi
	100	AR2208	56.0	3,390	54,100 psi	60.5	3,590	62,400 psi
	100	AR2209	65.0	3,390	51,800 psi	70.0	3,650	63,200 psi
	100	AR2213SC	70.0	3,365	52,200 psi	74.0C	3,545	60,600 psi
	110	AR2206H	53.0	3,230	52,500 psi	57.0	3,420	62,300 psi
	110	AR2208	56.0	3,320	56,200 psi	60.0	3,460	62,500 psi
	110	AR2209	65.0	3,325	52,600 psi	70.0	3,555	63,300 psi
	110	AR2213SC	68.0	3,225	51,300 psi	73.0	3,465	62,600 psi
	115	AR2206H	51.0	3,145	54,700 psi	55.0	3,310	62,700 psi
	115	AR2208	54.0	3,220	57,000 psi	57.5	3,360	63,800 psi
	115	AR2209	62.0	3,280	56,400 psi	66.5	3,440	63,500 psi
	115	AR2213SC	65.0	3,180	53,700 psi	70.0	3,370	62,900 psi
	120	AR2206H	50.0	3,060	51,600 psi	54.0	3,260	62,500 psi
	120	AR2208	53.0	3,155	56,300 psi	57.0	3,310	63,500 psi
	120	AR2209	61.0	3,205	54,800 psi	65.5	3,390	63,500 psi
	120	AR2213SC	65.0	3,160	55,100 psi	69.5	3,335	63,400 psi
	130	AR2206H	49.0	2,970	54,500 psi	53.0	3,135	63,000 psi
	130	AR2208	51.5	3,030	56,200 psi	55.2	3,185	64,000 psi
	130	AR2209	57.0	3,050	54,500 psi	61.0	3,215	62,800 psi
	130	AR2213SC	62.0	3,040	55,000 psi	66.0	3,200	63,200 psi
	130	AR2217	67.0	3,020	52,300 psi	72.0C	3,210	61,600 psi
	140	AR2206H	49.0	2,875	54,100 psi	52.3	3,025	63,000 psi
	140	AR2208	51.0	2,910	54,100 psi	54.5	3,065	62,600 psi
	140	AR2209	58.0	2,980	53,700 psi	61.5	3,135	61,900 psi
	140	AR2213SC	62.0	2,955	53,600 psi	66.0	3,115	62,000 psi
	140	AR2217	69.0	2,995	53,400 psi	72.0C	3,090	59,000 psi
	140	AR2225	69.0	2,890	47,100 psi	72.0C	3,045	54,300 psi
	145	AR2206H	47.0	2,780	55,100 psi	50.5	2,920	62,300 psi
	145	AR2208	50.0	2,870	57,100 psi	53.3	3,000	64,000 psi
	145	AR2209	55.0	2,900	55,700 psi	58.7	3,040	62,600 psi
	145	AR2213SC	59.0	2,890	55,800 psi	63.0	3,045	63,400 psi
	145	AR2217	65.0	2,905	54,000 psi	70.0C	3,080	62,900 psi
	150	AR2206H	48.0	2,780	54,000 psi	51.5	2,930	62,300 psi
	150	AR2208	51.0	2,850	55,700 psi	55.0	3,000	63,400 psi
	150	AR2209	59.0	2,925	54,600 psi	63.0	3,080	62,900 psi
	150	AR2213SC	63.0	2,900	53,700 psi	67.3	3,065	62,500 psi

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm Winchester Short Magnum 24" Barrel (cont.)								
	150	AR2217	68.0	2,900	51,300 psi	72.0C	3,030	58,600 psi
	150	AR2225	68.0	2,825	45,600 psi	72.0C	2,990	53,000 psi
	154	AR2206H	46.0	2,660	55,200 psi	49.5	2,800	63,000 psi
	154	AR2208	48.0	2,705	55,000 psi	52.0	2,855	62,800 psi
	154	AR2209	54.0	2,775	54,500 psi	57.7	2,920	62,600 psi
	154	AR2213SC	58.0	2,780	54,100 psi	62.5	2,940	62,900 psi
	154	AR2217	64.0	2,830	55,100 psi	68.5C	2,975	62,500 psi
	154	AR2225	66.0	2,835	50,000 psi	71.0C	3,040	61,700 psi
	160	AR2206H	46.0	2,615	52,500 psi	49.0	2,760	62,600 psi
	160	AR2208	48.0	2,675	54,100 psi	51.3	2,825	62,100 psi
	160	AR2209	56.0	2,780	54,600 psi	59.5	2,920	62,200 psi
	160	AR2213SC	59.0	2,755	54,200 psi	63.5	2,920	62,600 psi
	160	AR2217	65.0	2,800	54,300 psi	69.5C	2,955	62,800 psi
	160	AR2225	66.0	2,795	51,200 psi	70.0C	2,960	59,800 psi
	162	AR2206H	46.0	2,645	54,800 psi	49.0	2,775	62,700 psi
	162	AR2208	48.0	2,690	54,900 psi	51.5	2,830	62,900 psi
	162	AR2209	54.0	2,760	53,700 psi	58.0	2,910	62,900 psi
	162	AR2213SC	58.0	2,770	55,500 psi	62.0	2,915	62,800 psi
	162	AR2217	64.0	2,815	55,600 psi	69.0C	2,970	63,400 psi
	162	AR2225	66.0	2,835	53,300 psi	70.5C	3,010	62,500 psi
	168	AR2206H	46.0	2,615	55,000 psi	48.7	2,730	62,600 psi
	168	AR2208	48.0	2,665	55,100 psi	51.0	2,790	63,200 psi
	168	AR2209	55.0	2,745	55,900 psi	58.5	2,865	62,300 psi
	168	AR2213SC	59.0	2,760	56,200 psi	63.0	2,890	63,400 psi
	168	AR2217	65.0	2,760	54,000 psi	69.0C	2,910	61,600 psi
	168	AR2225	66.0	2,755	50,900 psi	70.0C	2,920	59,500 psi
	175	AR2209	49.0	2,545	55,500 psi	52.5	2,670	62,200 psi
	175	AR2213SC	54.0	2,620	58,100 psi	57.5	2,735	63,900 psi
	175	AR2217	58.0	2,635	56,600 psi	62.0C	2,765	63,100 psi
	175	AR2225	60.0	2,650	53,000 psi	64.0C	2,800	61,200 psi
7mm x 61 Sharp & Hart 24" Barrel								
	120	AR2206	-	-	-	54.5	3,250	-
	120	AR2208	-	-	-	57.5	3,250	-
	120	AR2209	-	-	-	64.0	3,250	-
	139-140	AR2206	-	-	-	53.0	3,100	-
	139-140	AR2208	-	-	-	56.0	3,100	-
	139-140	AR2209	-	-	-	62.5	3,100	-
	150	AR2206	-	-	-	52.0	3,000	-
	150	AR2208	-	-	-	55.0	3,000	-

C = Compressed Load: L = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm x 61 Sharp & Hart 24" Barrel (cont.)								
	150	AR2209	-	-	-	61.5	3,000	-
	160-162	AR2206	-	-	-	51.0	2,800	-
	160-162	AR2208	-	-	-	54.0	2,800	-
	160-162	AR2209	-	-	-	60.5	2,800	-
	175	AR2208	-	-	-	52.0	2,700	-
	175	AR2209	-	-	-	59.0	2,700	-
7mm Remington Magnum 24" Barrel								
	100	AR2208	53.0	3,195	-	59.0	3,490	-
	100	AR2209	65.0	3,335	-	69.0	3,495	-
	100	AR2213SC	71.0	3,315	-	75.0	3,500	-
	110	AR2208	54.0	3,175	-	58.5	3,355	-
	110	AR2209	65.0	3,235	-	68.5	3,360	-
	110	AR2213SC	68.0	3,215	-	73.0	3,370	-
	115	AR2208	53.0	3,070	-	56.5	3,245	-
	115	AR2209	62.0	3,090	-	66.0	3,280	-
	115	AR2213SC	65.0	3,060	-	69.7	3,260	-
	120	AR2208	53.0	3,020	-	57.0	3,220	-
	120	AR2209	62.0	3,105	-	65.0	3,225	-
	120	AR2213SC	65.0	3,095	-	68.5	3,235	-
	130	AR2208	51.0	2,875	-	54.0	3,000	-
	130	AR2209	58.0	2,955	-	61.5	3,080	-
	130	AR2213SC	63.0	2,950	-	66.0	3,050	-
	140	AR2209	56.0	2,810	-	59.0	2,930	-
	140	AR2213SC	61.0	2,840	-	64.0	2,950	-
	140	AR2217	67.0	2,935	-	70.0	3,035	-
	140	AR2225	71.0	2,955	-	75.0C	3,110	-
	150	AR2209	55.0	2,780	-	57.0	2,860	-
	150	AR2213SC	59.0	2,775	-	62.0	2,985	-
	150	AR2217	65.0	2,835	-	68.0	2,935	-
	150	AR2225	68.0	2,820	-	72.5C	3,000	-
	160	AR2209	53.0	2,650	-	55.5	2,745	-
	160	AR2213SC	58.0	2,695	-	60.0	2,790	-
	160	AR2217	63.0	2,730	-	66.0	2,840	-
	160	AR2225	65.0	2,755	-	69.5C	2,915	-
	162	AR2209	55.0	2,675	-	58.0	2,800	-
	162	AR2213SC	60.0	2,730	-	64.0	2,870	-
	162	AR2217	67.0	2,800	-	70.0	2,905	-
	162	AR2225	69.0	2,785	-	73.5C	2,965	-
	170	AR2209	58.0	2,700	-	60.0	2,770	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm Remington Magnum 24" Barrel (cont.)								
	170	AR2213SC	63.0	2,750	-	65.0	2,805	-
	170	AR2217	69.0	2,745	-	71.0	2,805	-
	170	AR2225	71.0	2,750	-	75.0C	2,900	-
	175	AR2209	51.0	2,505	-	54.0	2,620	-
	175	AR2213SC	55.0	2,530	-	58.0	2,660	-
	175	AR2217	61.0	2,565	-	64.5	2,690	-
	175	AR2225	64.0	2,650	-	68.0	2,800	-
7mm Weatherby Magnum 24" Barrel								
	140	AR2209	64.0	3,045	-	68.5	3,250	-
	140	AR2213SC	69.0	3,025	-	74.0	3,260	-
	140	AR2217	75.0	3,105	-	79.0C	3,275	-
	150	AR2209	64.0	3,010	-	68.0	3,180	-
	150	AR2213SC	68.0	2,975	-	72.0	3,150	-
	150	AR2217	75.0	3,075	-	79.0C	3,225	-
	160	AR2209	61.0	2,785	-	65.0	2,950	-
	160	AR2213SC	66.0	2,815	-	70.0	2,970	-
	160	AR2217	71.0	2,860	-	75.0C	2,995	-
	175	AR2209	60.0	2,755	-	63.7	2,900	-
	175	AR2213SC	63.0	2,725	-	67.5	2,895	-
	175	AR2217	70.0	2,845	-	74.7C	3,020	-
7mm Shooting Times Westerner 24" Barrel								
	120	AR2209	69.0	3,185	-	73.0	3,350	-
	120	AR2213SC	75.0	3,200	-	78.5	3,350	-
	120	AR2217	82.0	3,255	-	86.0	3,405	-
	120	AR2225	85.0	3,330	-	89.5C	3,520	-
	139	AR2209	69.0	3,080	-	71.0	3,185	-
	139	AR2213SC	72.0	3,020	-	76.5	3,180	-
	139	AR2217	81.0	3,120	-	85.5	3,285	-
	139	AR2225	83.0	3,165	-	88.0C	3,350	-
	145	AR2213SC	68.0	2,935	-	72.0	3,065	-
	145	AR2217	74.0	3,025	-	77.0	3,120	-
	145	AR2225	77.0	3,050	-	81.5C	3,195	-
	150	AR2213SC	66.0	2,850	-	68.0	2,925	-
	150	AR2217	70.0	2,900	-	72.5	2,980	-
	150	AR2225	71.0	2,850	-	77.0C	3,035	-
	150	AR2218	80.0	2,950	-	84.0C	3,030	-
	160	AR2213SC	70.0	2,885	-	74.0	3,040	-
	160	AR2217	76.0	2,930	-	80.7	3,085	-
	160	AR2225	75.0	2,910	-	80.2	3,055	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm Shooting Times Westerner 24" Barrel (cont.)								
	160	AR2218	88.0	2,930	-	90.0C	2,970	-
	175	AR2217	70.0	2,835	-	74.0	2,945	-
	175	AR2225	72.0	2,820	-	77.0	2,970	-
	175	AR2218	85.0	2,850	-	89.0C	2,975	-
	195	AR2218	84.0	2,760	-	88.0C	2,880	-
7mm Remington Ultra Magnum 24" Barrel								
	100	AR2209	82.0	3,620	55,500 psi	87.0	3,805	63,300 psi
	100	AR2213SC	90.0	3,585	55,900 psi	95.0	3,755	62,800 psi
	100	AR2217	98.0	3,515	52,200 psi	104.0C	3,750	62,700 psi
	110	AR2209	82.0	3,520	56,000 psi	86.0	3,675	63,200 psi
	110	AR2213SC	88.0	3,430	53,500 psi	93.5	3,650	63,000 psi
	110	AR2217	96.0	3,435	52,100 psi	102.0	3,675	62,600 psi
	115	AR2209	82.0	3,470	57,600 psi	85.5	3,590	63,400 psi
	115	AR2213SC	87.0	3,365	54,000 psi	91.5	3,565	62,800 psi
	115	AR2217	95.0	3,380	54,500 psi	101.0	3,590	63,100 psi
	115	AR2225	98.0	3,400	54,100 psi	104.0C	3,685	64,100 psi
	120	AR2209	81.0	3,475	59,700 psi	83.0	3,550	62,900 psi
	120	AR2213SC	85.0	3,345	54,600 psi	90.0	3,535	63,000 psi
	120	AR2217	94.0	3,370	54,600 psi	99.5	3,570	63,100 psi
	120	AR2225	96.0	3,325	52,100 psi	102.5C	3,600	62,300 psi
	130	AR2213SC	83.0	3,235	55,600 psi	88.0	3,410	63,100 psi
	130	AR2217	90.0	3,225	53,700 psi	95.5	3,430	62,900 psi
	130	AR2225	93.0	3,225	52,400 psi	99.5C	3,515	63,600 psi
	130	AR2218	102.0	3,290	56,900 psi	107.0C	3,415	62,300 psi
	140	AR2213SC	82.0	3,125	56,200 psi	87.0	3,280	63,100 psi
	140	AR2217	90.0	3,195	59,300 psi	95.0	3,280	62,700 psi
	140	AR2225	90.0	3,140	55,200 psi	96.5C	3,355	62,900 psi
	140	AR2218	101.0	3,090	54,200 psi	107.0C	3,270	62,400 psi
	145	AR2213SC	83.0	3,125	55,400 psi	88.0	3,300	63,400 psi
	145	AR2217	91.0	3,155	55,300 psi	97.0	3,330	63,300 psi
	145	AR2225	93.0	3,160	52,800 psi	99.0	3,390	63,400 psi
	145	AR2218	101.0	3,100	53,800 psi	107.0C	3,320	63,600 psi
	150	AR2213SC	82.0	3,145	61,900 psi	84.0	3,190	63,100 psi
	150	AR2217	87.0	3,045	54,400 psi	92.0	3,230	63,100 psi
	150	AR2225	89.0	3,055	53,000 psi	95.0C	3,300	63,600 psi
	150	AR2218	97.0	3,050	55,000 psi	103.0C	3,220	63,200 psi
	154	AR2217	85.0	3,050	56,700 psi	90.0	3,190	63,300 psi
	154	AR2225	90.0	3,055	53,400 psi	96.2	3,290	63,900 psi
	154	AR2218	94.0	2,990	54,800 psi	100.0C	3,170	63,100 psi

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7mm Remington Ultra Magnum 24" Barrel (cont.)								
	160	AR2217	85.0	3,005	56,500 psi	91.0	3,170	63,500 psi
	160	AR2225	88.0	3,005	53,700 psi	94.0	3,210	62,800 psi
	160	AR2218	94.0	2,985	55,600 psi	100.0	3,145	63,400 psi
	162	AR2217	84.0	2,995	55,600 psi	89.0	3,130	62,500 psi
	162	AR2225	89.0	3,010	53,100 psi	95.0	3,225	62,700 psi
	162	AR2218	94.0	2,980	56,000 psi	100.0	3,120	62,600 psi
	168	AR2217	85.0	2,990	57,500 psi	90.0	3,115	63,500 psi
	168	AR2225	89.0	2,985	54,400 psi	94.0	3,170	63,300 psi
	168	AR2218	94.0	2,940	55,600 psi	100.0	3,120	63,400 psi
	175	AR2217	82.0	2,870	56,700 psi	87.0	3,020	63,500 psi
	175	AR2225	86.0	2,920	57,300 psi	91.5	3,070	63,400 psi
	175	AR2218	91.0	2,890	57,000 psi	96.0	3,020	63,100 psi
7.35mm Carcano (1938) 21" Barrel								
	128	AR2207	-	-	-	33.0	2,500	-
	128	AR2206	-	-	-	37.0	2,500	-
	128	AR2208	-	-	-	41.0	2,500	-
	150	AR2206	-	-	-	35.0	2,450	-
	150	AR2208	-	-	-	39.0	2,450	-
30 M1 Carbine 20" Barrel								
	85	AR2205	14.5	2,055	-	15.5C	2,180	-
	100	AR2205	13.0	1,880	-	14.5C	2,025	-
	110	AR2205	13.0	1,825	-	14.5C	2,005	-
30/30 Winchester 24" Barrel								
	110	AR2207	23.0	2,175	-	25.5	2,410	-
	110	Bench Mark 2	30.5	2,405	-	32.5	2,510	-
	110	AR2206H	34.0	2,415	-	37.0	2,605	-
	110	AR2208	34.5	2,365	-	38.0C	2,570	-
	130	AR2207	22.5	2,080	-	24.5	2,235	-
	130	Bench Mark 2	27.7	2,165	-	29.7	2,295	-
	130	AR2206H	31.5	2,250	-	35.0	2,480	-
	130	AR2208	32.5	2,310	-	36.0C	2,495	-
	150	AR2207	21.6	1,925	-	24.0	2,110	-
	150	Bench Mark 2	27.0	2,040	-	29.0	2,185	-
	150	AR2206H	30.5	2,140	-	34.0	2,390	-
	150	AR2208	31.0	2,170	-	34.5	2,350	-
L	160	Trail Boss	6.5	995	-	9.0	1,195	-
	170	AR2207	20.5	1,765	-	22.5	1,920	-
	170	Bench Mark 2	25.3	1,895	-	27.0	2,000	-
	170	AR2206H	27.5	1,945	-	30.5	2,140	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
30/30 Winchester 24" Barrel (cont.)								
	170	AR2208	29.5	1,975	-	33.0	2,170	-
30/40 Krag 24" Barrel								
	100	AR2205	13.0	1,435	-	16.0	1,705	-
	100	AR2207	30.0	2,605	-	34.0	2,885	-
	100	AR2219	39.0	2,540	-	43.0	2,900	-
	100	AR2206H	42.0	2,705	-	44.0	2,835	-
	100	AR2209	48.0	2,300	-	51.0	2,490	-
	110	AR2207	30.0	2,415	-	34.0	2,810	-
	110	AR2219	39.0	2,495	-	43.0	2,840	-
	110	AR2209	46.0	2,250	-	51.0	2,490	-
	130	AR2207	29.0	2,225	-	33.0	2,565	-
	130	AR2219	38.0	2,460	-	42.0	2,700	-
	130	AR2209	48.0	2,330	-	51.0	2,535	-
	150	AR2207	28.0	2,220	-	32.0	2,365	-
	150	AR2219	36.0	2,370	-	40.0	2,520	-
	150	AR2206H	38.5	2,410	-	42.0	2,575	-
	150	AR2209	46.0	2,200	-	49.0	2,390	-
	150	AR2213SC	45.0	2,130	-	49.0	2,305	-
	165	AR2219	35.0	2,230	-	39.0	2,400	-
	165	AR2209	45.0	2,115	-	48.0	2,240	-
	165	AR2213SC	44.0	1,965	-	48.0	2,175	-
	180	AR2219	33.0	2,110	-	37.0	2,250	-
	180	AR2206H	35.0	2,170	-	38.0	2,265	-
	180	AR2209	43.0	2,005	-	46.0	2,110	-
	200	AR2219	32.0	1,915	-	35.0	2,075	-
	200	AR2209	42.0	1,930	-	44.0	2,020	-
	220	AR2219	30.0	1,850	-	33.0	1,970	-
	220	AR2209	40.0	1,875	-	42.0	1,950	-
300 Savage 22" Barrel								
	100	AR2207	34.0	2,915	-	37.0	3,105	-
	100	AR2206H	41.0	2,820	-	43.0	3,000	-
	110	AR2207	34.0	2,740	-	37.0	2,980	-
	110	AR2206H	39.5	2,670	-	43.0	2,945	-
	130	AR2207	33.0	2,625	-	36.0	2,840	-
	130	AR2206H	39.5	2,325	-	43.0	2,700	-
	150	AR2206H	37.0	2,185	-	40.0	2,410	-
	165	AR2206H	35.0	2,165	-	38.0	2,340	-
	180	AR2206H	34.0	2,080	-	37.0	2,130	-
	200	AR2206H	32.0	1,975	-	35.0	2,090	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7.5mm x 55 Swiss 31" Barrel								
	125	AR2206H	41.0	2,640	-	43.0	2,760	-
	125	AR2209	47.0	2,565	-	51.0	2,840	-
	125	AR2213SC	49.0	2,640	-	52.0	2,810	-
	150	AR2206H	40.0	2,485	-	42.0	2,580	-
	150	AR2209	45.0	2,420	-	49.0	2,610	-
	150	AR2213SC	47.0	2,495	-	51.0	2,660	-
	168	AR2206H	39.0	2,390	-	41.0	2,430	-
	168	AR2209	44.0	2,380	-	48.0	2,525	-
	168	AR2213SC	45.0	2,475	-	49.0	2,580	-
	180	AR2206H	37.0	2,200	-	39.0	2,295	-
	180	AR2209	42.0	2,250	-	46.0	2,565	-
	180	AR2213SC	43.0	2,305	-	47.0	2,425	-
307 Winchester 20" Barrel								
	110	AR2219	41.0	2,815	-	44.0	3,000	-
	110	AR2206	41.0	2,730	-	44.5	2,965	-
	110	AR2206H	42.0	2,725	-	45.0	2,930	-
	110	AR2208	43.0	2,510	-	48.0	2,800	-
	110	AR2209	47.0	2,320	-	50.0	2,590	-
	110	AR2213SC	48.0	2,340	-	50.0	2,450	-
	125	AR2219	39.0	2,480	-	42.0	2,670	-
	125	AR2206	39.0	2,500	-	42.5	2,725	-
	125	AR2206H	40.0	2,540	-	43.0	2,760	-
	125	AR2208	40.5	2,430	-	45.0	2,700	-
	125	AR2209	47.0	2,380	-	50.0	2,520	-
	125	AR2213SC	48.0	2,270	-	50.0	2,400	-
	150	AR2219	38.0	2,320	-	41.0	2,515	-
	150	AR2206	38.5	2,370	-	41.5	2,555	-
	150	AR2206H	39.0	2,400	-	42.0	2,605	-
	150	AR2208	40.0	2,275	-	44.0	2,500	-
	150	AR2209	46.0	2,290	-	48.0	2,455	-
	150	AR2213SC	47.0	2,155	-	49.0	2,350	-
	170	AR2219	35.0	2,235	-	38.0	2,420	-
	170	AR2206	35.5	2,185	-	39.0	2,400	-
	170	AR2206H	37.0	2,315	-	40.0	2,475	-
	170	AR2208	38.0	2,170	-	42.0	2,400	-
	170	AR2209	45.0	2,210	-	47.0	2,380	-
	170	AR2213SC	45.0	2,160	-	47.0	2,290	-
	180	AR2219	34.0	2,170	-	37.0	2,360	-
	180	AR2206H	36.0	2,225	-	39.0	2,375	-

C = Compressed Load: L = Lead Projectile



# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
307 Winchester 20" Barrel (cont.)								
	180	AR2209	45.0	2,290	-	47.0	2,415	-
	180	AR2213SC	45.0	2,140	-	47.0	2,290	-
	200	AR2206	34.0	2,060	-	38.0	2,300	-
	200	AR2208	35.0	2,065	-	39.0	2,300	-
	200	AR2209	41.0	2,050	-	46.0	2,300	-
	200	AR2213SC	41.0	1,965	-	46.0	2,207	-
308 Marlin Express 24" Barrel								
	125	AR2219	34.0	2,555	41,400 psi	37.0	2,705	46,200 psi
	125	Bench Mark 2	34.0	2,505	39,500 psi	37.6	2,680	45,200 psi
	125	AR2206H	38.0	2,525	35,900 psi	42.0	2,790	45,000 psi
	125	AR2208	39.0	2,525	37,500 psi	42.3C	2,700	42,800 psi
	130	AR2219	32.0	2,390	36,500 psi	35.3	2,620	45,800 psi
	130	Bench Mark 2	33.0	2,430	38,800 psi	36.5	2,635	46,300 psi
	130	AR2206H	38.0	2,550	38,600 psi	41.7	2,760	46,000 psi
	130	AR2208	39.0	2,500	37,500 psi	42.5	2,730	46,400 psi
	150	AR2206H	37.0	2,445	40,000 psi	40.5	2,610	45,900 psi
	150	AR2208	38.0	2,405	39,100 psi	41.5C	2,570	46,100 psi
	170	AR2206H	35.0	2,290	41,000 psi	38.6C	2,440	46,300 psi
	170	AR2208	36.0	2,255	40,500 psi	39.3C	2,395	46,300 psi
308 Winchester (7.62mm) 24" Barrel								
	110	AR2207	37.0	2,950	-	40.0	3,145	-
	110	AR2219	42.0	2,990	-	45.0	3,135	-
	110	Bench Mark 2	44.0	2,960	-	48.0	3,180	-
	110	AR2206H	45.0	3,005	-	49.0C	3,250	-
	110	AR2208	48.0	3,135	-	50.0C	3,235	-
	125	AR2207	36.0	2,840	-	39.5	2,990	-
	125	AR2219	42.0	2,890	-	45.0	3,050	-
	125	Bench Mark 2	43.0	2,820	-	47.5	3,070	-
	125	AR2206H	45.0	2,890	-	49.0C	3,130	-
	125	AR2208	48.0	3,050	-	50.0C	3,135	-
	130	AR2207	35.0	2,745	-	37.0	2,840	-
	130	AR2219	40.0	2,755	-	43.0	2,925	-
	130	Bench Mark 2	41.0	2,705	-	46.0	2,985	-
	130	AR2206	43.0	2,740	-	47.5C	3,025	-
	130	AR2206H	45.0	2,905	-	49.0C	3,100	-
	130	AR2208	47.0	2,975	-	50.0C	3,130	-
	140	Bench Mark 2	39.0	2,575	-	43.5	2,830	-
	140	AR2206H	41.0	2,635	-	45.0	2,900	-
	140	AR2208	44.0	2,750	-	47.0C	2,930	-

**C** = Compressed Load: **L** = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
308 Winchester (7.62mm) 24" Barrel (cont.)								
	144	AR2206	40.5	2,600	-	45.0	2,890	-
	144	AR2208	42.5	2,615	-	47.0C	2,890	-
	150	Trail Boss	10.0	1,175	25,800 psi	14.0	1,420	27,100 psi
	150	AR2219	37.0	2,510	-	40.0	2,700	-
	150	Bench Mark 2	39.0	2,520	-	43.0	2,750	-
	150	AR2206H	43.0	2,740	-	45.5	2,870	-
	150	AR2208	44.0	2,790	-	47.0C	2,940	-
	155	AR2219	38.0	2,590	-	41.0	2,710	-
	155	Bench Mark 2	39.0	2,540	-	43.0	2,755	-
	155	AR2206	40.0	2,540	-	44.5	2,825	-
	155	AR2206H	43.0	2,735	-	46.0	2,875	-
	155	AR2208	44.0	2,760	-	47.0C	2,910	-
	165	Bench Mark 2	38.5	2,440	-	42.5	2,650	-
	165	AR2206H	41.0	2,525	-	43.5	2,695	-
	165	AR2208	42.0	2,580	-	46.0C	2,775	-
	168	AS30N	-	-	-	8.0	1,060	-
	168	Bench Mark 2	38.0	2,415	-	42.0	2,630	-
	168	AR2206	39.5	2,445	-	43.7	2,705	-
	168	AR2206H	41.0	2,550	-	43.5	2,705	-
	168	AR2208	42.0	2,520	-	46.0C	2,730	-
	168	AR2209	42.5	2,195	-	47.0C	2,425	-
	175	Bench Mark 2	38.0	2,400	-	41.5	2,590	-
	175	AR2206	38.0	2,370	-	41.5	2,590	-
	175	AR2206H	40.0	2,490	-	42.7	2,650	-
	175	AR2208	42.0	2,585	-	45.0C	2,690	-
	180	Bench Mark 2	38.0	2,365	-	41.3	2,540	-
	180	AR2206H	40.0	2,455	-	42.5	2,595	-
	180	AR2208	41.0	2,470	-	45.0C	2,660	-
	190	Bench Mark 2	37.0	2,290	-	39.5	2,420	-
	190	AR2206H	39.0	2,360	-	42.0	2,515	-
	190	AR2208	41.0	2,450	-	44.0C	2,535	-
	190	AR2209	43.5	2,240	-	48.0C	2,470	-
	200	Bench Mark 2	37.5	2,225	-	40.0	2,355	-
	200	AR2206H	38.0	2,255	-	41.0C	2,405	-
	200	AR2208	39.0	2,290	-	42.0C	2,440	-
7.62mm x 54R (Russian) 24" Barrel								
	110	Bench Mark 2	47.0	3,060	-	50.5	3,215	-
	110	AR2206H	51.0	3,150	-	55.0C	3,345	-
	110	AR2208	51.0	3,015	-	55.0C	3,200	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
7.62mm x 54R (Russian) 24" Barrel (cont.)								
	125	AR2206H	50.0	3,035	-	54.0C	3,235	-
	125	AR2208	51.0	2,965	-	55.0C	3,140	-
	150	AR2206H	46.0	2,770	-	49.5C	2,940	-
	150	AR2208	47.0	2,720	-	50.5	2,985	-
	165	AR2206H	44.0	2,635	-	47.0	2,760	-
	165	AR2208	45.0	2,580	-	48.3	2,730	-
	165	AR2209	52.0	2,610	-	55.0C	2,740	-
	180	AR2206H	42.0	2,480	-	45.4C	2,620	-
	180	AR2208	43.0	2,410	-	46.5C	2,575	-
	180	AR2209	51.0	2,495	-	55.0C	2,690	-
	180	AR2213SC	51.0	2,280	-	55.0C	2,485	-
	200	AR2206H	39.0	2,270	-	42.2	2,410	-
	200	AR2208	41.0	2,305	-	44.0	2,410	-
	200	AR2209	48.0	2,330	-	52.0	2,530	-
	200	AR2213SC	52.0	2,350	-	55.0C	2,470	-
	220	AR2206H	38.0	2,145	-	41.0	2,265	-
	220	AR2208	40.0	2,180	-	42.5	2,270	-
	220	AR2209	47.0	2,225	-	50.5C	2,395	-
	220	AR2213SC	50.0	2,210	-	54.0C	2,380	-
30-06 Springfield 24" Barrel								
	110	Bench Mark 2	51.5	3,240	-	55.0	3,395	-
	110	AR2206H	51.0	3,155	-	57.0	3,430	-
	110	AR2208	55.0	3,310	-	59.0	3,450	-
	125	Bench Mark 2	49.0	2,995	-	52.0	3,180	-
	125	AR2206H	48.0	2,975	-	53.7	3,230	-
	125	AR2208	54.0	3,160	-	57.2	3,270	-
	130	Bench Mark 2	48.0	2,985	-	51.0	3,110	-
	130	AR2206H	48.0	2,925	-	53.1	3,145	-
	130	AR2208	49.0	2,980	-	53.5	3,155	-
	140	AR2206H	46.0	2,820	-	49.2	2,990	-
	140	AR2208	47.5	2,815	-	51.0	2,960	-
	140	AR2209	58.0	2,900	-	62.0C	3,090	-
	150	Trail Boss	13.3	1,060	14,700 psi	19.0	1,480	26,400 psi
	150	Bench Mark 2	46.5	2,790	-	49.5	2,945	-
	150	AR2206H	46.0	2,805	-	51.0	2,975	-
	150	AR2208	47.0	2,810	-	51.0	2,975	-
	150	AR2209	56.0	2,790	-	62.0C	3,070	-
	155	Bench Mark 2	46.5	2,780	-	49.5	2,915	-
	155	AR2206H	46.0	2,750	-	51.0	2,925	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
30-06 Springfield 24" Barrel (cont.)								
	155	AR2208	48.0	2,820	-	50.7	2,960	-
	155	AR2209	56.0	2,755	-	62.0C	3,040	-
	165	Bench Mark 2	45.0	2,685	-	47.7	2,795	-
	165	AR2206H	43.0	2,605	-	47.5	2,780	-
	165	AR2208	47.0	2,725	-	50.5	2,875	-
	165	AR2209	53.0	2,680	-	59.0C	2,940	-
	168	Bench Mark 2	44.0	2,615	-	47.2	2,760	-
	168	AR2206H	43.0	2,575	-	47.5	2,790	-
	168	AR2208	47.0	2,710	-	50.5	2,860	-
	168	AR2209	55.0	2,695	-	59.0	2,900	-
	175	AR2206H	43.8	2,585	-	46.7	2,700	-
	175	AR2208	45.0	2,550	-	48.0	2,695	-
	175	AR2209	55.0	2,660	-	59.0	2,845	-
	175	AR2213SC	57.0	2,535	-	61.5C	2,720	-
	180	Bench Mark 2	43.0	2,550	-	46.0	2,660	-
	180	AR2206H	41.0	2,425	-	46.0	2,640	-
	180	AR2208	44.0	2,535	-	47.0	2,670	-
	180	AR2209	52.0	2,545	-	57.5	2,800	-
	180	AR2213SC	54.0	2,445	-	60.0C	2,710	-
	190	AR2206H	41.0	2,380	-	45.5	2,525	-
	190	AR2208	43.5	2,450	-	46.5	2,610	-
	190	AR2209	51.0	2,450	-	56.5	2,690	-
	190	AR2213SC	57.0	2,515	-	61.0C	2,670	-
	200	AR2206H	39.0	2,245	-	43.5	2,420	-
	200	AR2208	42.5	2,370	-	45.5	2,500	-
	200	AR2209	50.0	2,430	-	53.0	2,545	-
	200	AR2213SC	54.0	2,435	-	57.5C	2,580	-
	200	AR2217	55.0	2,265	-	61.0C	2,510	-
	220	AR2208	42.0	2,280	-	45.0	2,380	-
	220	AR2209	50.0	2,320	-	53.0	2,435	-
	220	AR2213SC	54.0	2,340	-	57.5C	2,460	-
	220	AR2217	58.0	2,295	-	61.0C	2,410	-
	250	AR2209	45.0	2,060	-	47.5	2,155	-
	250	AR2213SC	50.0	2,135	-	52.5C	2,240	-
	250	AR2217	55.0	2,180	-	58.0C	2,280	-
30-06 Improved 24" Barrel								
	130	AR2209	-	-	-	65.0	3,250	-
	150	AR2209	-	-	-	62.5	3,100	-
	165	AR2209	-	-	-	59.5	3,000	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
30-06 Improved	24" Barrel (cont.)							
	180	AR2209	-	-	-	58.0	2,900	-
	200	AR2209	-	-	-	56.0	2,750	-
300 Holland & Holland Magnum	24" Barrel							
	110	AR2209	69.0	3,330	-	73.0	3,550	-
	110	AR2213SC	76.5	3,425	-	83.0	3,610	-
	130	AR2209	68.0	3,140	-	72.0	3,395	-
	130	AR2213SC	75.0	3,185	-	81.0	3,360	-
	150	AR2209	67.0	3,000	-	71.0	3,200	-
	150	AR2213SC	72.0	3,095	-	78.0	3,315	-
	165	AR2209	66.0	3,020	-	69.0	3,165	-
	165	AR2213SC	71.0	2,950	-	77.0	3,100	-
	200	AR2209	62.0	2,745	-	66.0	2,910	-
	200	AR2213SC	67.0	2,735	-	72.0	2,930	-
	220	AR2209	60.0	2,595	-	64.0	2,715	-
	220	AR2213SC	65.0	2,655	-	70.0	2,715	-
	250	AR2209	59.0	2,345	-	62.0	2,495	-
	250	AR2213SC	63.0	2,370	-	67.0	2,565	-
	308 Norma Magnum	26" Barrel						
110		AR2206H	59.0	3,340	-	64.0	3,555	-
110		AR2209	72.0	3,200	-	77.0	3,505	-
110		AR2213SC	73.0	3,230	-	80.0	3,565	-
130		AR2206H	59.0	3,165	-	64.0	3,390	-
130		AR2209	71.0	3,140	-	74.0	3,290	-
130		AR2213SC	73.0	3,200	-	79.0	3,300	-
130		AR2217	80.0	3,210	-	84.0	3,335	-
150		AR2206H	57.0	2,940	-	62.0	3,190	-
150		AR2209	69.0	2,915	-	73.0	3,190	-
150		AR2213SC	70.0	3,155	-	76.0	3,260	-
150		AR2217	79.0	3,090	-	83.0	3,280	-
168		AR2206H	56.0	2,860	-	61.0	3,060	-
168		AR2209	68.0	2,880	-	72.0	3,115	-
168		AR2213SC	69.0	2,945	-	75.0	3,140	-
168		AR2217	75.0	2,940	-	79.0	3,125	-
180		AR2206H	54.0	2,730	-	59.0	2,900	-
180		AR2209	65.0	2,770	-	69.0	3,000	-
180		AR2213SC	67.0	2,865	-	73.0	3,020	-
180		AR2217	72.0	2,770	-	76.0	2,940	-
190		AR2217	70.0	2,710	-	74.0	2,890	-
200		AR2209	63.0	2,740	-	67.0	2,850	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
308 Norma Magnum 26" Barrel (cont.)								
	200	AR2213SC	64.5	2,660	-	70.0	2,890	-
	200	AR2217	69.0	2,675	-	73.0	2,860	-
	220	AR2209	61.0	2,520	-	65.0	2,705	-
	220	AR2213SC	63.0	2,435	-	68.0	2,695	-
	220	AR2217	66.0	2,450	-	70.0	2,670	-
	250	AR2217	64.0	2,390	-	68.0	2,500	-
300 Ruger Compact Magnum 24" Barrel								
	135	AR2206H	54.0	3,090	50,900 psi	57.4	3,260	60,000 psi
	135	AR2208	55.2	3,065	51,300 psi	58.7	3,270	63,200 psi
	150	AR2206H	51.7	2,920	52,000 psi	55.0	3,090	62,500 psi
	150	AR2208	53.0	2,920	53,600 psi	56.4	3,085	62,700 psi
	150	AR2209	59.1	2,900	50,300 psi	63.5C	3,120	61,800 psi
	155	AR2206H	52.5	2,930	54,700 psi	55.0	3,065	62,300 psi
	155	AR2208	52.6	2,900	53,800 psi	56.0	3,040	61,900 psi
	155	AR2209	58.6	2,820	47,100 psi	62.3	3,060	60,800 psi
	165	AR2206H	49.8	2,785	55,900 psi	53.0	2,920	62,700 psi
	165	AR2208	50.1	2,720	53,100 psi	54.2	2,910	62,600 psi
	165	AR2209	58.8	2,845	55,600 psi	62.5C	2,980	62,700 psi
	168	AR2206H	50.3	2,805	56,600 psi	53.5	2,910	61,700 psi
	168	AR2208	51.0	2,755	52,900 psi	54.3	2,890	60,500 psi
	168	AR2209	57.3	2,735	47,900 psi	61.0	2,950	61,200 psi
	178	AR2206H	48.4	2,685	54,000 psi	51.5	2,795	61,200 psi
	178	AR2208	50.0	2,700	55,500 psi	53.2	2,820	62,300 psi
	178	AR2209	56.9	2,730	53,600 psi	60.5C	2,885	62,200 psi
	180	AR2206H	47.2	2,575	51,900 psi	50.2	2,710	60,400 psi
	180	AR2208	49.4	2,625	54,800 psi	52.6	2,755	62,700 psi
	180	AR2209	56.4	2,650	50,700 psi	60.0C	2,825	62,600 psi
	200	AR2206H	45.6	2,440	54,600 psi	48.5	2,545	61,800 psi
	200	AR2208	48.3	2,500	57,200 psi	51.4	2,585	61,700 psi
	200	AR2209	55.2	2,545	53,300 psi	58.7C	2,710	62,600 psi
300 Remington Short Action Ultra Magnum 24" Barrel								
	110	AR2206H	58.0	3,430	50,600 psi	62.0	3,665	63,000 psi
	110	AR2208	60.5	3,390	51,100 psi	64.5	3,620	63,200 psi
	125	AR2206H	58.0	3,340	54,700 psi	62.0	3,555	64,300 psi
	125	AR2208	60.0	3,295	52,700 psi	64.0	3,510	64,200 psi
	125	AR2209	65.0	3,170	47,800 psi	69.0C	3,375	58,300 psi
	130	AR2206H	55.5	3,180	51,700 psi	59.0	3,360	62,800 psi
	130	AR2208	57.5	3,165	53,600 psi	61.0	3,330	62,600 psi
	130	AR2209	65.0	3,200	54,700 psi	69.0C	3,360	63,500 psi

C = Compressed Load: L = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
300 Remington Short Action Ultra Magnum 24" Barrel (cont.)								
	135	AR2206H	55.5	3,165	52,700 psi	59.0	3,340	62,500 psi
	135	AR2208	56.5	3,080	52,000 psi	60.0	3,270	63,100 psi
	135	AR2209	63.0	3,090	51,900 psi	67.0C	3,285	63,500 psi
	140	AR2206H	53.5	3,040	52,300 psi	57.0	3,210	62,600 psi
	140	AR2208	55.5	3,050	54,400 psi	59.0	3,205	62,400 psi
	140	AR2209	62.0	3,025	51,700 psi	66.0C	3,210	62,000 psi
	150	AR2206H	53.0	3,005	55,900 psi	57.0	3,150	62,800 psi
	150	AR2208	55.0	2,965	52,700 psi	59.0	3,150	63,200 psi
	150	AR2209	62.0	2,985	52,600 psi	65.5C	3,150	62,100 psi
	155	AR2206H	52.0	2,895	50,800 psi	55.5	3,065	61,700 psi
	155	AR2208	54.5	2,925	53,900 psi	57.7	3,080	63,200 psi
	155	AR2209	60.5	2,900	50,200 psi	64.5	3,110	63,500 psi
	165	AR2206H	50.5	2,825	56,500 psi	54.0	2,945	63,000 psi
	165	AR2208	53.0	2,835	55,400 psi	56.5	2,970	63,100 psi
	165	AR2209	59.0	2,795	50,200 psi	63.0	3,000	62,900 psi
	168	AR2206H	51.0	2,835	57,000 psi	54.5	2,950	63,100 psi
	168	AR2208	53.5	2,835	55,600 psi	56.5	2,955	62,700 psi
	168	AR2209	58.0	2,770	49,500 psi	62.5	2,985	63,000 psi
	168	AR2213SC	64.0	2,800	53,200 psi	68.0C	2,950	62,600 psi
	175	AR2209	59.0	2,805	54,000 psi	62.5	2,945	62,700 psi
	175	AR2213SC	64.0	2,785	54,800 psi	68.0C	2,925	62,600 psi
	180	AR2206H	48.0	2,695	57,000 psi	51.5	2,825	64,700 psi
	180	AR2208	50.0	2,680	53,600 psi	54.0	2,840	63,600 psi
	180	AR2209	58.0	2,770	55,600 psi	61.6C	2,910	63,500 psi
	190	AR2209	56.0	2,660	52,100 psi	60.0	2,835	62,900 psi
	190	AR2213SC	61.0	2,660	54,000 psi	65.5C	2,810	62,800 psi
	200	AR2209	56.0	2,585	51,600 psi	59.5C	2,750	63,200 psi
	200	AR2213SC	63.0	2,640	55,500 psi	66.0C	2,755	63,300 psi
	220	AR2209	54.0	2,470	54,200 psi	58.0	2,610	63,700 psi
	220	AR2213SC	60.0	2,495	55,800 psi	63.5C	2,615	63,500 psi
300 Winchester Short Magnum 24" Barrel								
	110	AR2206H	60.0	3,495	56,800 psi	63.5	3,650	63,600 psi
	110	AR2208	62.0	3,455	54,300 psi	66.0	3,630	63,200 psi
	110	AR2209	70.0	3,435	53,500 psi	74.5C	3,645	63,300 psi
	125	AR2206H	58.0	3,315	56,600 psi	61.0	3,430	63,000 psi
	125	AR2208	61.0	3,310	54,700 psi	65.0	3,480	63,100 psi
	125	AR2209	69.0	3,330	55,800 psi	73.0	3,480	63,000 psi
	130	AR2206H	56.0	3,215	55,700 psi	58.5	3,320	63,000 psi
	130	AR2208	60.0	3,270	58,100 psi	63.5	3,390	63,500 psi

**C** = Compressed Load: **L** = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
300 Winchester Short Magnum 24" Barrel (cont.)								
	130	AR2209	67.0	3,235	54,900 psi	71.0	3,395	63,200 psi
	140	AR2206H	52.0	3,000	51,700 psi	56.0	3,200	63,400 psi
	140	AR2208	56.0	3,085	54,800 psi	60.0	3,250	63,200 psi
	140	AR2209	65.0	3,115	53,900 psi	69.0	3,290	63,100 psi
	150	AR2206H	51.0	2,920	53,400 psi	54.5	3,080	63,100 psi
	150	AR2208	55.0	3,010	56,800 psi	58.5	3,140	63,800 psi
	150	AR2209	63.0	3,040	55,700 psi	67.0	3,185	63,200 psi
	155	AR2206H	52.0	2,935	55,800 psi	55.0	3,060	63,600 psi
	155	AR2208	55.0	2,965	54,800 psi	58.5	3,110	63,600 psi
	155	AR2209	63.0	3,015	55,300 psi	66.5	3,155	63,200 psi
	165	AR2206H	51.0	2,810	55,700 psi	54.0	2,930	63,200 psi
	165	AR2208	54.0	2,860	56,400 psi	57.5	2,990	63,700 psi
	165	AR2209	61.0	2,895	54,800 psi	65.5	3,050	63,600 psi
	168	AR2209	61.0	2,910	56,000 psi	64.5	3,035	63,700 psi
	168	AR2213SC	65.0	2,850	53,400 psi	69.5C	3,015	63,200 psi
	175	AR2209	61.0	2,840	53,300 psi	65.0	3,010	63,400 psi
	175	AR2213SC	66.0	2,850	55,300 psi	70.0C	2,980	63,100 psi
	180	AR2209	60.0	2,800	55,700 psi	64.0	2,950	63,900 psi
	180	AR2213SC	65.5	2,775	52,000 psi	70.0C	2,930	64,000 psi
	190	AR2209	57.5	2,735	56,200 psi	61.0	2,855	63,400 psi
	190	AR2213SC	62.0	2,705	53,800 psi	66.5C	2,860	63,400 psi
	200	AR2209	58.0	2,665	55,000 psi	62.0	2,790	63,200 psi
	200	AR2213SC	63.0	2,680	56,000 psi	66.5C	2,800	63,700 psi
	200	AR2217	70.0	2,660	51,600 psi	72.0C	2,735	57,200 psi
	220	AR2209	54.0	2,475	54,100 psi	58.0	2,600	63,300 psi
	220	AR2213SC	60.0	2,520	55,600 psi	64.3C	2,645	63,500 psi
	220	AR2217	69.0	2,595	57,200 psi	72.5C	2,690	63,000 psi
300 Winchester Magnum 24" Barrel								
	110	AR2206H	60.0	3,380	-	67.0	3,665	-
	110	AR2208	67.0	3,425	-	72.5	3,660	-
	110	AR2209	72.0	3,335	-	80.0	3,650	-
	110	AR2213SC	79.0	3,355	-	84.0C	3,540	-
	110	AR2217	80.0	3,190	-	85.0C	3,390	-
	125	AR2206H	57.0	3,140	-	62.0	3,345	-
	125	AR2208	65.0	3,280	-	70.0	3,460	-
	125	AR2209	68.0	3,250	-	73.0	3,425	-
	125	AR2213SC	75.0	3,285	-	80.0	3,450	-
	125	AR2217	80.0	3,260	-	85.0C	3,420	-
	130	AR2206H	58.0	3,185	-	62.0	3,330	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
300 Winchester Magnum 24" Barrel (cont.)								
	130	AR2208	64.0	3,220	-	68.5	3,400	-
	130	AR2209	70.0	3,220	-	74.0	3,375	-
	130	AR2213SC	77.0	3,115	-	82.0C	3,385	-
	130	AR2217	80.0	3,125	-	85.0C	3,290	-
	140	AR2206H	58.0	3,080	-	62.7	3,240	-
	140	AR2208	61.0	3,075	-	65.0	3,250	-
	140	AR2209	69.0	3,080	-	74.0	3,280	-
	140	AR2213SC	76.0	3,095	-	81.0C	3,290	-
	140	AR2217	80.0	3,035	-	85.0C	3,225	-
	150	Trail Boss	18.0	1,300	18,400 psi	25.5	1,690	28,600 psi
	150	AR2206H	57.0	2,990	-	61.0	3,125	-
	150	AR2208	56.0	2,950	-	60.0	3,110	-
	150	AR2209	68.0	3,050	-	72.0	3,205	-
	150	AR2213SC	73.0	3,025	-	78.0	3,210	-
	150	AR2217	80.0	3,005	-	85.0C	3,255	-
	155	AR2206H	55.0	2,920	-	59.0	3,080	-
	155	AR2208	55.0	2,895	-	59.7	3,090	-
	155	AR2209	69.0	3,015	-	74.0	3,215	-
	155	AR2213SC	74.0	2,965	-	79.0C	3,165	-
	155	AR2217	80.0	2,990	-	85.0C	3,160	-
	165	AR2206H	55.0	2,840	-	59.0	2,980	-
	165	AR2208	54.0	2,800	-	58.5	2,975	-
	165	AR2209	66.0	2,910	-	70.0	3,040	-
	165	AR2213SC	72.0	2,935	-	75.5	3,055	-
	165	AR2217	79.0	2,955	-	84.0	3,120	-
	168	AR2206H	55.0	2,845	-	59.0	2,980	-
	168	AR2208	54.0	2,795	-	58.2	2,965	-
	168	AR2209	66.0	2,900	-	70.0	3,035	-
	168	AR2213SC	72.0	2,875	-	75.5	3,025	-
	168	AR2217	79.0	2,940	-	84.0	3,110	-
	175	AR2209	66.0	2,830	-	71.0	2,990	-
	175	AR2213SC	72.0	2,845	-	76.5	3,005	-
	175	AR2217	77.0	2,820	-	82.0C	3,010	-
	180	AR2209	63.0	2,785	-	67.0	2,920	-
	180	AR2213SC	69.0	2,850	-	73.0C	2,965	-
	180	AR2217	76.0	2,885	-	81.0C	3,040	-
	190	AR2209	63.0	2,735	-	67.0	2,865	-
	190	AR2213SC	69.0	2,795	-	73.0C	2,925	-
	190	AR2217	76.0	2,820	-	81.0C	2,990	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
300 Winchester Magnum 24" Barrel (cont.)								
	200	AR2209	63.0	2,645	-	66.0	2,755	-
	200	AR2213SC	67.0	2,685	-	72.0C	2,825	-
	200	AR2217	74.0	2,725	-	79.0C	2,885	-
	200	AR2225	79.0	2,800	-	84.0C	2,960	-
	220	AR2209	61.0	2,500	-	65.0	2,620	-
	220	AR2213SC	66.0	2,535	-	71.0	2,685	-
	220	AR2217	73.0	2,590	-	78.0	2,750	-
	220	AR2225	76.0	2,645	-	81.0C	2,810	-
	250	AR2213SC	60.0	2,330	-	64.0	2,435	-
	250	AR2217	65.0	2,345	-	70.0	2,485	-
	250	AR2225	71.0	2,455	-	75.0C	2,590	-
300 Weatherby Magnum 24" Barrel								
	125	AR2208	65.0	3,385	-	69.0	3,490	-
	125	AR2209	77.0	3,345	-	82.5	3,550	-
	125	AR2213SC	84.0	3,320	-	90.0C	3,530	-
	130	AR2209	78.0	3,290	-	83.0	3,485	-
	130	AR2213SC	84.0	3,305	-	89.5C	3,465	-
	140	AR2206H	58.0	3,025	-	62.0	3,195	-
	140	AR2208	59.0	2,995	-	63.2	3,175	-
	140	AR2209	71.0	3,140	-	76.5	3,320	-
	140	AR2213SC	79.0	3,180	-	85.0	3,385	-
	140	AR2217	84.0	3,130	-	90.0C	3,295	-
	150	AR2206H	58.0	2,955	-	62.3	3,100	-
	150	AR2208	59.0	2,975	-	63.0	3,140	-
	150	AR2209	68.0	2,985	-	72.5	3,155	-
	150	AR2213SC	74.0	2,995	-	79.0	3,170	-
	150	AR2217	82.0	3,065	-	88.0C	3,265	-
	165	AR2206H	58.0	2,870	-	62.5	3,030	-
	165	AR2208	58.0	2,875	-	62.0	3,035	-
	165	AR2209	69.0	2,910	-	74.0	3,075	-
	165	AR2213SC	75.0	2,935	-	80.2	3,115	-
	165	AR2217	84.0	3,015	-	89.7C	3,215	-
	180	AR2209	69.0	2,875	-	73.5	3,020	-
	180	AR2213SC	76.0	2,910	-	81.5	3,095	-
	180	AR2217	83.0	2,970	-	88.5C	3,150	-
	200	AR2209	66.0	2,705	-	71.0	2,865	-
	200	AR2213SC	72.0	2,710	-	77.5	2,870	-
	200	AR2217	79.0	2,765	-	85.0C	2,965	-
	200	AR2225	80.0	2,765	-	85.5C	2,980	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
300 Weatherby Magnum 24" Barrel (cont.)								
	220	AR2209	66.0	2,600	-	70.0	2,725	-
	220	AR2213SC	71.0	2,630	-	75.7	2,765	-
	220	AR2217	77.0	2,670	-	82.5	2,835	-
	220	AR2225	79.0	2,680	-	84.0C	2,855	-
30-378 Weatherby 26" Barrel								
	150	AR2213SC	100.0	3,450	-	104.0	3,555	-
	150	AR2217	110.0	3,465	-	114.0	3,600	-
	150	AR2225	113.0	3,490	-	119.0C	3,690	-
	165	AR2213SC	95.0	3,200	-	100.5	3,390	-
	165	AR2217	106.0	3,285	-	112.0	3,495	-
	165	AR2225	109.0	3,305	-	116.0C	3,560	-
	180	AR2213SC	94.0	3,135	-	100.0	3,300	-
	180	AR2217	105.0	3,215	-	111.0	3,410	-
	180	AR2225	107.0	3,230	-	113.0C	3,460	-
	180	AR2218	116.0	3,090	-	120.0C	3,230	-
	190	AR2217	102.0	3,155	-	108.0	3,315	-
	190	AR2225	105.0	3,155	-	111.5C	3,375	-
	190	AR2218	115.0	3,115	-	120.0C	3,245	-
	200	AR2217	95.0	2,965	-	101.5	3,130	-
	200	AR2225	98.0	2,990	-	105.0C	3,210	-
	200	AR2218	111.0	3,135	-	117.0C	3,230	-
	220	AR2217	99.0	2,965	-	104.0	3,085	-
	220	AR2225	101.0	2,955	-	107.5	3,155	-
	220	AR2218	115.0	3,045	-	118.5C	3,145	-
300 Remington Ultra Magnum 24" Barrel								
	130	AR2209	87.0	3,435	54,000 psi	93.0	3,640	63,000 psi
	130	AR2213SC	93.0	3,330	51,200 psi	99.5	3,580	62,800 psi
	130	AR2217	100.0	3,350	50,900 psi	107.0C	3,615	63,500 psi
	140	AR2213SC	87.0	3,260	55,100 psi	93.0	3,450	63,600 psi
	140	AR2217	95.0	3,325	56,900 psi	101.0	3,470	63,100 psi
	140	AR2225	97.0	3,280	52,100 psi	103.5C	3,495	61,400 psi
	150	AR2213SC	90.0	3,245	55,100 psi	94.0	3,410	62,900 psi
	150	AR2217	98.0	3,260	53,100 psi	102.0	3,460	62,900 psi
	150	AR2225	100.0	3,345	52,600 psi	106.0C	3,530	60,800 psi
	165	AR2213SC	85.0	3,055	52,300 psi	90.0	3,255	62,100 psi
	165	AR2217	94.0	3,135	53,300 psi	98.0	3,320	62,500 psi
	165	AR2225	97.0	3,240	54,200 psi	103.0C	3,415	62,300 psi
	180	AR2213SC	84.0	2,995	54,000 psi	89.0	3,170	62,500 psi
	180	AR2217	91.0	3,020	52,300 psi	96.0	3,220	62,800 psi

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
300 Remington Ultra Magnum 24" Barrel (cont.)								
	180	AR2225	94.0	3,180	58,400 psi	100.5C	3,300	62,400 psi
	180	AR2218	103.0	3,005	53,700 psi	108.0C	3,160	62,100 psi
	190	AR2213SC	80.0	2,890	53,000 psi	85.0	3,070	62,500 psi
	190	AR2217	88.0	2,970	54,900 psi	93.0	3,130	63,500 psi
	190	AR2225	90.0	3,070	56,500 psi	96.0	3,205	62,500 psi
	190	AR2218	100.0	2,940	54,900 psi	105.0C	3,085	63,000 psi
	200	AR2217	80.0	2,765	57,400 psi	83.0	2,850	62,800 psi
	200	AR2225	81.0	2,850	56,200 psi	86.0	2,990	62,800 psi
	200	AR2218	92.0	2,765	56,100 psi	98.0C	2,910	63,100 psi
	220	AR2217	83.0	2,705	54,500 psi	89.0	2,865	63,500 psi
	220	AR2225	84.0	2,800	56,600 psi	89.0	2,905	61,900 psi
	220	AR2218	95.0	2,700	54,000 psi	100.5C	2,850	62,500 psi
7.62mm x 39 (Russian) 24" Barrel								
	125	AR2207	24.5	2,190	-	26.5	2,380	-
	125	AR2219	28.0	2,210	-	29.0	2,325	-
	125	AR2206H	28.0	2,170	-	29.0	2,250	-
	150	AR2207	22.5	1,945	-	24.5	2,120	-
	150	AR2219	27.0	2,085	-	28.5	2,190	-
	150	AR2206H	27.0	2,080	-	28.0	2,155	-
310 Cadet (Martini Action) 22" Barrel								
L	110	AR2205	-	-	-	11.0	1,500	-
	120	AR2205	-	-	-	9.0	1,270	-
32-20 WCF 24" Barrel								
	80	AR2205	-	-	-	16.0	2,150	-
	100	AR2205	-	-	-	14.0	1,950	-
L	115	AP70N	-	-	-	4.0	1,260	-
	115	AR2205	-	-	-	13.0	1,800	-
L	125	AP70N	-	-	-	3.7	1,225	-
7.7mm x 58 Japanese 26" Barrel								
	150	AR2206H	41.0	2,335	-	44.0	2,530	-
	150	AR2209	48.0	2,330	-	51.0	2,515	-
	150	AR2213SC	50.0	2,180	-	55.0	2,445	-
	180	AR2206H	37.0	2,060	-	40.0	2,230	-
	180	AR2209	44.0	2,090	-	47.0	2,310	-
	180	AR2213SC	46.0	2,010	-	50.0	2,235	-
303 British 24" Barrel								
	125	Bench Mark 2	40.0	2,680	-	44.0	2,920	-
	125	AR2206	42.0	2,635	-	46.0C	2,880	-
	125	AR2206H	41.0	2,790	-	45.0	2,930	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
303 British 24" Barrel (cont.)								
	125	AR2208	45.0	2,765	-	48.0	2,885	-
	150	Bench Mark 2	34.0	2,450	-	38.0	2,605	-
	150		AR2206	36.0	2,440	-	39.5	2,620
	150	AR2206H	36.0	2,445	-	40.0	2,630	-
	150	AR2208	39.0	2,460	-	43.0	2,655	-
	174	AR2206	34.0	2,245	-	37.5	2,515	-
	174	AR2206H	34.0	2,260	-	38.0	2,445	-
	174	AR2208	38.0	2,345	-	42.0	2,510	-
	174	AR2209	43.0	2,265	-	48.0C	2,520	-
	180	AR2206	33.0	2,200	-	37.5	2,390	-
	180	AR2206H	34.0	2,180	-	38.0	2,400	-
	180	AR2208	37.0	2,280	-	41.0	2,440	-
	180	AR2209	44.0	2,295	-	48.0C	2,500	-
	215	AR2206	35.0	2,080	-	39.0	2,250	-
	215	AR2208	36.0	2,130	-	39.5	2,265	-
	215	AR2209	42.0	2,045	-	45.0C	2,185	-
7.65mm x 53 (7.65mm Mauser) 29" Barrel								
	150	AR2206	38.0	2,285	-	42.0	2,565	-
	150	AR2206H	39.5	2,340	-	43.0	2,600	-
	150	AR2208	40.0	2,305	-	43.5	2,590	-
	150	AR2209	45.0	2,345	-	49.0	2,615	-
	174	AR2206	36.0	2,055	-	38.5	2,325	-
	174	AR2206H	37.0	2,070	-	40.0	2,350	-
	174	AR2208	38.0	2,110	-	41.0	2,350	-
	174	AR2209	43.0	2,265	-	47.0	2,455	-
32 Winchester Special 20" Barrel								
	170	AR2207	25.0	2,005	-	27.0	2,170	-
	170	AR2219	30.0	2,110	-	32.3	2,265	-
	170	Bench Mark 2	30.0	2,005	-	32.5	2,175	-
	170		AR2206	31.0	1,965	-	33.0	2,200
	170	AR2206H	32.0	2,120	-	34.5	2,285	-
	170	AR2208	34.0	2,095	-	37.0C	2,270	-
32-40 Winchester 24" Barrel								
	170	AR2207	-	-	-	19.0	1,650	-
	170	AR2206	-	-	-	26.0	1,825	-
L	196	Trail Boss	5.0	835	-	6.0	935	-
L	196	AR2205	-	-	-	13.0	1,370	-
8mm Mauser (8x57) 24" Barrel								
	125	AR2207	39.0	2,945	-	42.0	3,055	-

**C** = Compressed Load: **L** = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
8mm Mauser (8x57) 24" Barrel (cont.)								
	125	Bench Mark 2	43.5	2,730	-	49.8	3,070	-
	125	AR2206H	47.0	2,845	-	53.5	3,210	-
	125	AR2208	47.0	2,730	-	54.0	3,090	-
	125	AR2209	50.0	2,215	-	54.0	2,480	-
	150	AR2207	38.0	2,690	-	41.0	2,850	-
	150	Bench Mark 2	42.5	2,575	-	47.5	2,860	-
	150	AR2206H	44.0	2,620	-	51.0	2,990	-
	150	AR2208	45.5	2,560	-	52.4C	2,895	-
	150	AR2209	50.0	2,365	-	54.0	2,550	-
	150	AR2213SC	53.0	2,185	-	57.0	2,450	-
	170	Bench Mark 2	41.0	2,395	-	46.6	2,680	-
	170	AR2206H	40.0	2,305	-	49.0	2,770	-
	170	AR2208	43.0	2,360	-	50.5	2,700	-
	170	AR2209	50.0	2,340	-	54.0	2,510	-
	170	AR2213SC	53.0	2,205	-	57.0	2,420	-
	175	Bench Mark 2	41.0	2,415	-	46.2	2,660	-
	175	AR2206H	40.0	2,390	-	49.4	2,760	-
	175	AR2208	43.0	2,420	-	50.5	2,715	-
	180	Bench Mark 2	39.0	2,305	-	44.5	2,585	-
	180	AR2206H	41.0	2,385	-	47.7	2,690	-
	180	AR2208	42.0	2,310	-	48.8	2,640	-
	200	AR2206H	38.0	2,240	-	45.4	2,540	-
	200	AR2208	40.5	2,185	-	47.5	2,510	-
	200	AR2209	49.0	2,275	-	54.0C	2,520	-
	220	AR2206H	40.0	2,180	-	45.2	2,420	-
	220	AR2208	39.0	2,055	-	46.8	2,390	-
8mm x 68 Schuler 26" Barrel								
	125	AR2209	-	-	-	73.0	3,300	-
	150	AR2209	-	-	-	70.0	3,100	-
	170	AR2209	-	-	-	68.0	2,950	-
	220	AR2209	-	-	-	62.0	2,650	-
325 Winchester Short Magnum 24" Barrel								
	150	Bench Mark 2	57.0	3,075	50,200 psi	60.5	3,255	62,400 psi
	150	AR2206H	60.0	3,155	53,600 psi	63.5	3,315	63,300 psi
	150	AR2208	61.0	3,135	54,200 psi	65.0	3,305	63,600 psi
	150	AR2209	69.0	3,140	51,600 psi	73.5C	3,345	63,700 psi
	150	AR2213SC	71.0	2,945	44,100 psi	75.0C	3,115	52,800 psi
	175	Bench Mark 2	51.0	2,745	54,000 psi	53.7	2,865	62,700 psi
	175	AR2206H	57.5	2,860	54,100 psi	61.0	3,000	62,900 psi

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
325 Winchester Short Magnum		24" Barrel (cont.)						
	175	AR2208	58.0	2,860	55,400 psi	61.0	2,975	62,300 psi
	175	AR2209	64.5	2,835	51,100 psi	68.0C	3,025	63,400 psi
	175	AR2213SC	70.0	2,820	51,400 psi	73.0C	2,960	61,400 psi
	180	AR2206H	52.5	2,730	55,100 psi	54.6	2,820	60,300 psi
	180	AR2208	55.0	2,770	56,500 psi	58.0	2,875	62,700 psi
	180	AR2209	61.8	2,795	52,500 psi	65.5	2,960	62,200 psi
	180	AR2213SC	62.0	2,775	52,900 psi	65.8C	2,930	62,800 psi
	195	AR2206H	53.0	2,650	55,000 psi	56.0	2,765	62,500 psi
	195	AR2208	54.0	2,660	55,500 psi	57.3	2,780	62,800 psi
	195	AR2209	61.0	2,710	54,400 psi	64.5	2,840	62,300 psi
	195	AR2213SC	66.3	2,705	54,600 psi	70.5C	2,835	63,000 psi
	200	AR2206H	54.0	2,660	58,400 psi	57.3	2,740	62,200 psi
	200	AR2208	55.5	2,640	55,100 psi	59.0	2,760	62,300 psi
	200	AR2209	63.0	2,690	52,500 psi	67.0	2,845	62,900 psi
	220	AR2206H	49.5	2,440	54,800 psi	52.5	2,555	63,100 psi
	220	AR2208	50.8	2,450	55,800 psi	54.0	2,570	62,400 psi
	220	AR2209	58.3	2,520	52,700 psi	62.0	2,650	62,400 psi
	220	AR2213SC	63.0	2,490	52,200 psi	67.0C	2,640	61,300 psi
8mm Remington Magnum		24" Barrel						
	125	AR2209	79.0	3,270	-	83.0	3,490	-
	150	AR2208	71.0	3,255	-	75.0	3,405	-
	150	AR2209	79.0	3,240	-	83.5	3,400	-
	150	AR2213SC	88.0	3,270	-	92.0C	3,380	-
	175	AR2209	72.0	2,930	-	77.0	3,140	-
	175	AR2213SC	81.0	3,030	-	86.5	3,160	-
	180	AR2209	69.0	2,920	-	73.0	3,035	-
	180	AR2213SC	74.0	2,860	-	78.0	2,945	-
	180	AR2217	86.0	2,980	-	89.0C	3,050	-
	200	AR2209	70.0	2,820	-	74.0	2,950	-
	200	AR2213SC	77.0	2,820	-	81.5	2,945	-
	200	AR2217	86.0	2,825	-	89.0C	2,920	-
	220	AR2209	70.0	2,690	-	74.0	2,825	-
	220	AR2213SC	76.0	2,685	-	80.5	2,815	-
	220	AR2217	85.0	2,725	-	88.0C	2,820	-
338 Federal		24" Barrel						
	160	AR2219	44.0	2,705	47,000 psi	49.0C	2,940	58,400 psi
	160	Bench Mark 2	44.0	2,655	45,200 psi	49.0C	2,885	56,300 psi
	180	AR2219	41.0	2,515	46,000 psi	45.5C	2,745	59,700 psi
	180	Bench Mark 2	42.0	2,530	47,900 psi	47.0C	2,770	61,300 psi

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
338 Federal 24" Barrel (cont.)								
	180	AR2206H	43.0	2,485	42,400 psi	47.0C	2,680	50,800 psi
	185	AR2219	39.0	2,445	49,400 psi	43.3C	2,645	59,700 psi
	185	Bench Mark 2	39.0	2,415	48,000 psi	44.0C	2,640	60,100 psi
	185	AR2206H	42.0	2,455	45,400 psi	46.5C	2,690	58,200 psi
	185	AR2208	42.0	2,365	43,000 psi	47.0C	2,610	54,700 psi
	200	AR2219	40.0	2,410	49,500 psi	44.5	2,595	59,300 psi
	200	Bench Mark 2	40.0	2,310	43,200 psi	45.0C	2,585	59,700 psi
	200	AR2206H	42.0	2,350	42,600 psi	47.0C	2,600	55,100 psi
	200	AR2208	42.0	2,265	40,400 psi	47.0C	2,510	52,100 psi
	210	AR2219	38.0	2,295	45,900 psi	42.3C	2,510	59,200 psi
	210	Bench Mark 2	38.0	2,275	45,900 psi	43.0C	2,515	60,800 psi
	210	AR2206H	40.0	2,280	41,600 psi	45.0C	2,550	58,100 psi
	210	AR2208	41.0	2,250	42,000 psi	46.0C	2,505	56,500 psi
	215	AR2219	38.0	2,305	50,400 psi	43.0	2,505	60,300 psi
	215	Bench Mark 2	39.0	2,285	47,200 psi	43.3	2,490	60,000 psi
	215	AR2206H	41.0	2,295	43,500 psi	46.0C	2,540	57,600 psi
	215	AR2208	41.0	2,215	41,000 psi	46.0C	2,450	53,100 psi
	225	AR2219	37.0	2,205	52,700 psi	41.0	2,360	60,000 psi
	225	Bench Mark 2	38.0	2,150	46,600 psi	42.8	2,365	59,500 psi
	225	AR2206H	40.0	2,165	42,900 psi	45.3C	2,445	60,000 psi
	225	AR2208	41.0	2,150	43,100 psi	46.0C	2,410	57,900 psi
338-06 24" Barrel								
	160	AR2219	50.0	2,870	55,200 psi	55.0	3,075	62,800 psi
	160	Bench Mark 2	51.0	2,860	50,300 psi	56.8	3,105	63,600 psi
	160	AR2206H	53.0	2,900	50,600 psi	58.0C	3,110	62,200 psi
	160	AR2208	56.0	2,925	51,200 psi	60.0C	3,065	57,900 psi
	175	AR2219	48.0	2,715	49,700 psi	52.2	2,900	62,000 psi
	175	Bench Mark 2	49.0	2,730	51,700 psi	53.7	2,920	63,100 psi
	175	AR2206H	51.0	2,775	51,200 psi	56.0	2,980	63,300 psi
	175	AR2208	55.0	2,840	55,100 psi	59.0C	2,980	63,000 psi
	180	AR2219	49.0	2,740	52,000 psi	53.0	2,915	63,000 psi
	180	Bench Mark 2	50.0	2,765	53,700 psi	54.2	2,925	63,400 psi
	180	AR2206H	51.0	2,735	49,600 psi	55.0	2,935	62,700 psi
	180	AR2208	54.0	2,780	51,000 psi	58.5C	2,960	62,000 psi
	185	AR2219	47.0	2,670	52,900 psi	50.5	2,825	62,400 psi
	185	Bench Mark 2	47.0	2,630	50,400 psi	51.3	2,825	62,700 psi
	185	AR2206H	49.0	2,670	51,000 psi	53.5	2,865	62,900 psi
	185	AR2208	52.0	2,725	54,000 psi	56.0	2,865	62,300 psi
	200	AR2219	47.0	2,585	53,600 psi	50.9	2,725	61,900 psi

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
338-06 24" Barrel (cont.)								
	200	Bench Mark 2	48.0	2,570	52,400 psi	52.2	2,725	61,000 psi
	200	AR2206H	50.0	2,630	52,900 psi	54.0	2,790	63,300 psi
	200	AR2208	52.0	2,620	51,500 psi	56.5	2,810	63,100 psi
	200	AR2209	58.0	2,595	47,800 psi	62.0C	2,730	54,300 psi
	210	AR2206H	47.0	2,480	49,900 psi	51.7	2,685	62,900 psi
	210	AR2208	50.0	2,545	52,400 psi	53.9	2,700	62,400 psi
	210	AR2209	58.0	2,600	52,200 psi	62.0C	2,755	61,800 psi
	215	AR2206H	48.0	2,505	51,200 psi	51.9	2,675	62,600 psi
	215	AR2208	50.0	2,510	50,200 psi	54.5	2,700	62,400 psi
	215	AR2209	58.0	2,575	50,600 psi	62.0C	2,730	59,900 psi
	225	AR2206H	46.0	2,410	51,200 psi	49.8	2,580	63,000 psi
	225	AR2208	48.0	2,440	52,100 psi	52.0	2,600	62,700 psi
	225	AR2209	55.0	2,480	52,100 psi	59.5C	2,650	62,700 psi
	250	AR2208	46.0	2,250	51,300 psi	50.0	2,405	62,100 psi
	250	AR2209	55.0	2,365	51,700 psi	59.8	2,540	63,400 psi
338 Ruger Compact Magnum 24" Barrel								
	185	AR2206H	50.0	2,650	49,400 psi	54.8C	2,850	60,600 psi
	185	AR2208	51.0	2,600	48,000 psi	57.0C	2,870	62,900 psi
	200	AR2206H	50.0	2,630	55,400 psi	55.3	2,805	63,600 psi
	200	AR2208	51.0	2,570	51,300 psi	57.0C	2,800	64,000 psi
	210	AR2206H	47.0	2,515	54,200 psi	52.0C	2,665	60,800 psi
	210	AR2208	48.0	2,460	49,800 psi	53.0C	2,660	62,300 psi
	225	AR2206H	47.0	2,465	56,800 psi	52.3	2,620	63,300 psi
	225	AR2208	48.0	2,405	50,500 psi	53.3	2,600	62,200 psi
338 Winchester Magnum 24" Barrel								
	160	AR2206H	57.0	2,920	-	63.0	3,140	-
	160	AR2208	57.0	2,935	-	63.0	3,150	-
	160	AR2209	65.0	2,890	-	72.0	3,155	-
	160	AR2213SC	70.0	2,875	-	78.0C	3,130	-
	175	AR2206H	54.0	2,745	-	60.5	2,970	-
	175	AR2208	53.0	2,705	-	59.0	2,940	-
	175	AR2209	63.0	2,770	-	70.0	3,050	-
	175	AR2213SC	68.0	2,770	-	76.0	3,040	-
	180	AR2206H	58.0	2,895	-	64.0	3,065	-
	180	AR2208	57.0	2,870	-	63.5	3,090	-
	180	AR2209	69.0	2,930	-	74.5	3,160	-
	180	AR2213SC	70.0	2,775	-	78.0C	3,070	-
	185	AR2206H	56.0	2,765	-	59.5	2,900	-
	185	AR2208	60.0	2,830	-	65.0	3,015	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
338 Winchester Magnum 24" Barrel (cont.)								
	185	AR2209	69.6	2,895	-	74.0C	3,050	-
	200	AR2206H	56.0	2,700	-	62.0	2,880	-
	200	AR2208	53.0	2,595	-	58.5	2,805	-
	200	AR2209	65.0	2,695	-	72.5	2,970	-
	200	AR2213SC	70.0	2,705	-	77.5C	2,965	-
	210	AR2206H	54.0	2,610	-	60.0	2,790	-
	210	AR2208	53.0	2,575	-	58.5	2,785	-
	210	AR2209	63.0	2,620	-	70.0	2,855	-
	210	AR2213SC	68.0	2,650	-	75.5C	2,890	-
	225	AR2206H	53.0	2,505	-	59.0	2,690	-
	225	AR2208	52.0	2,480	-	57.5	2,680	-
	225	AR2209	63.0	2,570	-	69.5	2,785	-
	225	AR2213SC	67.0	2,540	-	74.5C	2,790	-
	250	AR2209	61.0	2,450	-	67.5	2,660	-
	250	AR2213SC	64.0	2,425	-	71.5C	2,655	-
	250	AR2217	72.0	2,510	-	76.0C	2,620	-
	275	AR2209	57.0	2,260	-	63.5	2,450	-
	275	AR2213SC	62.0	2,305	-	69.0	2,500	-
	275	AR2217	70.0	2,400	-	76.0C	2,565	-
	300	AR2209	56.0	2,200	-	61.5	2,360	-
	300	AR2213SC	63.0	2,255	-	69.0C	2,420	-
	300	AR2217	66.0	2,240	-	70.0C	2,350	-
340 Weatherby Magnum 26" Barrel								
	200	AR2209	77.0	2,775	-	80.0	2,995	-
	200	AR2213SC	85.0	2,835	-	90.0	3,040	-
	225	AR2209	75.0	2,705	-	78.0	2,865	-
	225	AR2213SC	81.0	2,620	-	86.0	2,890	-
	250	AR2209	73.0	2,570	-	76.0	2,725	-
	250	AR2213SC	78.0	2,485	-	83.0	2,785	-
	275	AR2209	71.0	2,460	-	74.0	2,575	-
	275	AR2213SC	75.0	2,375	-	80.0	2,570	-
338 Lapua Magnum 24" Barrel								
	160	AR2209	83.0	3,175	-	92.7	3,430	-
	160	AR2213SC	90.0	3,135	-	99.5	3,400	-
	175	AR2209	79.0	3,020	-	88.0	3,265	-
	175	AR2213SC	85.0	2,995	-	93.0	3,195	-
	175	AR2217	93.0	2,955	-	103.0C	3,250	-
	185	AR2209	82.0	3,060	-	91.0	3,285	-
	185	AR2213SC	87.0	2,960	-	97.0	3,225	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
338 Lapua Magnum 24" Barrel (cont.)								
	185	AR2217	100.0	3,060	-	106.0C	3,210	-
	200	AR2209	79.0	2,925	-	85.5	3,100	-
	200	AR2213SC	83.0	2,855	-	92.0	3,085	-
	200	AR2217	92.0	2,855	-	102.0C	3,115	-
	200	AR2225	96.0	2,930	-	104.0C	3,190	-
	210	AR2209	76.0	2,835	-	82.0	3,005	-
	210	AR2213SC	80.0	2,735	-	89.0	3,005	-
	210	AR2217	90.0	2,800	-	99.5	3,050	-
	210	AR2225	92.0	2,845	-	102.0C	3,140	-
	215	AR2209	76.0	2,790	-	84.0	3,015	-
	215	AR2213SC	82.0	2,765	-	91.0	3,000	-
	215	AR2217	92.0	2,810	-	102.0C	3,070	-
	215	AR2225	94.0	2,850	-	104.0C	3,125	-
	225	AR2209	74.0	2,715	-	82.5	2,935	-
	225	AR2213SC	80.0	2,700	-	89.6	2,920	-
	225	AR2217	91.0	2,715	-	101.0C	2,995	-
	225	AR2225	92.0	2,745	-	102.0C	3,040	-
	250	AR2209	74.0	2,615	-	78.0	2,740	-
	250	AR2213SC	79.0	2,600	-	85.0	2,740	-
	250	AR2217	88.0	2,565	-	98.0C	2,840	-
	250	AR2225	90.0	2,620	-	98.0C	2,855	-
	275	AR2213SC	71.0	2,350	-	79.0	2,570	-
	275	AR2217	83.0	2,445	-	91.5C	2,650	-
	275	AR2225	80.0	2,420	-	89.0	2,670	-
	300	AR2213SC	71.0	2,305	-	79.0	2,510	-
	300	AR2217	83.0	2,385	-	92.0C	2,590	-
	300	AR2225	85.0	2,375	-	94.0C	2,655	-
338 Remington Ultra Magnum 24" Barrel								
	160	AR2209	89.0	3,280	52,800 psi	94.5	3,475	62,700 psi
	160	AR2213SC	96.0	3,235	54,700 psi	102.0C	3,415	63,200 psi
	160	AR2217	99.0	3,110	45,000 psi	102.0C	3,215	49,400 psi
	175	AR2209	86.0	3,140	53,800 psi	91.5	3,330	62,900 psi
	175	AR2213SC	93.5	3,100	53,900 psi	99.5	3,290	63,000 psi
	175	AR2217	96.0	3,015	46,100 psi	102.0C	3,190	54,000 psi
	185	AR2209	86.0	3,125	52,900 psi	91.0	3,300	62,800 psi
	185	AR2213SC	91.0	3,035	51,900 psi	97.0	3,235	62,700 psi
	185	AR2217	98.0	3,090	50,500 psi	102.0C	3,230	57,900 psi
	200	AR2209	84.0	3,010	55,400 psi	89.5	3,155	63,000 psi
	200	AR2213SC	91.0	2,980	54,500 psi	96.5	3,140	63,000 psi

**C** = Compressed Load: **L** = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
338 Remington Ultra Magnum 24" Barrel (cont.)								
	200	AR2217	96.0	2,945	48,300 psi	102.0C	3,130	58,600 psi
	210	AR2209	82.0	2,940	53,700 psi	87.0	3,110	62,900 psi
	210	AR2213SC	89.0	2,915	54,600 psi	94.5	3,085	63,100 psi
	210	AR2217	96.0	2,950	51,200 psi	102.0C	3,155	62,900 psi
	215	AR2209	83.0	2,940	54,100 psi	88.0	3,090	62,700 psi
	215	AR2213SC	89.0	2,880	51,800 psi	94.5	3,060	62,800 psi
	215	AR2217	96.0	2,945	51,800 psi	102.0C	3,130	62,800 psi
	225	AR2209	81.0	2,830	54,200 psi	86.0	2,975	62,600 psi
	225	AR2213SC	88.0	2,825	54,400 psi	93.5	2,980	63,000 psi
	225	AR2217	94.0	2,860	51,400 psi	100.0C	3,060	63,000 psi
	225	AR2225	97.0	2,660	52,800 psi	103.0C	3,055	61,100 psi
	250	AR2209	78.0	2,700	55,700 psi	83.0	2,820	63,000 psi
	250	AR2213SC	84.0	2,660	50,000 psi	90.0	2,860	62,500 psi
	250	AR2217	92.0	2,755	52,400 psi	98.0C	2,925	62,400 psi
	250	AR2225	95.0	2,800	54,600 psi	101.0C	2,965	64,500 psi
	275	AR2209	73.0	2,505	54,800 psi	78.0	2,650	62,900 psi
	275	AR2213SC	81.0	2,570	55,000 psi	86.0	2,695	62,500 psi
	275	AR2217	86.0	2,600	54,800 psi	91.0C	2,730	62,700 psi
	275	AR2225	88.0	2,650	57,900 psi	94.0C	2,765	63,100 psi
338-378 Weatherby Magnum 26" Barrel								
	160	AR2209	99.0	3,390	-	106.0	3,610	-
	160	AR2213SC	107.0	3,360	-	114.0	3,585	-
	160	AR2217	116.0	3,375	-	120.0C	3,480	-
	175	AR2209	96.0	3,265	-	102.0	3,480	-
	175	AR2213SC	103.0	3,200	-	110.0	3,400	-
	175	AR2217	113.0	3,250	-	120.0C	3,415	-
	185	AR2209	94.0	3,185	-	100.5	3,370	-
	185	AR2213SC	102.0	3,210	-	109.0	3,400	-
	185	AR2217	113.0	3,265	-	120.0C	3,435	-
	185	AR2225	119.0	3,330	-	123.0C	3,430	-
	200	AR2209	92.0	3,045	-	98.5	3,260	-
	200	AR2213SC	98.0	2,975	-	105.0	3,220	-
	200	AR2217	110.0	3,140	-	117.0C	3,350	-
	200	AR2225	116.0	3,230	-	123.0C	3,400	-
	210	AR2209	91.0	3,010	-	96.5	3,175	-
	210	AR2213SC	97.0	2,955	-	103.0	3,155	-
	210	AR2217	106.0	2,980	-	113.0	3,190	-
	210	AR2225	116.0	3,185	-	123.0C	3,360	-
	215	AR2209	90.0	3,025	-	96.0	3,145	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
338-378 Weatherby Magnum 26" Barrel (cont.)								
	215	AR2213SC	98.0	2,980	-	104.0	3,140	-
	215	AR2217	105.0	2,960	-	112.0	3,155	-
	215	AR2225	115.0	3,150	-	122.0C	3,330	-
	225	AR2209	90.0	2,975	-	95.5	3,100	-
	225	AR2213SC	98.0	2,950	-	104.0	3,110	-
	225	AR2217	104.0	2,940	-	111.0	3,110	-
	225	AR2225	112.0	3,040	-	119.0C	3,245	-
	250	AR2213SC	95.0	2,785	-	101.0	2,950	-
	250	AR2217	102.0	2,795	-	109.0	2,990	-
	250	AR2225	108.0	2,880	-	115.0C	3,075	-
	275	AR2213SC	92.0	2,665	-	98.0	2,800	-
	275	AR2217	100.0	2,690	-	106.0	2,840	-
	275	AR2225	104.0	2,710	-	110.5C	2,935	-
	275	AR2218	116.0	2,750	-	120.0C	2,845	-
	300	AR2213SC	89.0	2,595	-	95.0	2,720	-
	300	AR2217	92.0	2,505	-	101.5	2,750	-
	300	AR2225	100.0	2,605	-	106.5	2,820	-
348 Winchester 24" Barrel								
	200	Bench Mark 2	48.0	2,400	-	52.0	2,550	-
	200	AR2206H	51.0	2,420	-	55.0	2,590	-
	200	AR2208	53.0	2,390	-	58.0	2,605	-
	200	AR2209	61.0	2,380	-	66.0	2,630	-
	200	AR2213SC	65.0	2,315	-	68.5C	2,470	-
	250	Bench Mark 2	44.0	2,085	-	47.5	2,220	-
	250	AR2206H	45.0	2,075	-	50.0	2,280	-
	250	AR2208	47.0	2,085	-	52.0	2,285	-
	250	AR2209	55.0	2,155	-	59.5	2,330	-
	250	AR2213SC	60.0	2,115	-	65.0C	2,300	-
357 Magnum Rifle 18.5" Barrel								
	110	AP70N	7.5	1,585	-	8.0	1,670	-
	110	AR2205	18.9	2,070	-	21.0	2,235	-
	125	AP70N	7.1	1,425	-	7.6	1,525	-
	125	AR2205	18.0	1,955	-	20.0	2,120	-
	140	AP70N	6.5	1,280	-	7.0	1,355	-
	140	AR2205	16.2	1,800	-	18.0	1,930	-
	150	AP70N	6.2	1,095	-	6.7	1,325	-
	150	AR2205	15.0	1,665	-	16.5	1,775	-
L	158	AP50N	5.0	1,135	-	5.3	1,200	-
	158	AP70N	5.8	1,060	-	6.3	1,150	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
357 Magnum Rifle 18.5" Barrel (cont.)								
L	158	AP70N	5.5	1,215	-	6.7	1,380	-
	158	AR2205	14.5	1,580	-	16.0	1,670	-
L	158	AR2205	10.5	1,290	-	11.5	1,380	-
	170	AR2205	13.0	1,440	-	14.5	1,535	-
	180	AR2205	12.7	1,185	-	13.7	1,325	-
35 Remington 24" Barrel								
	180	AR2207	28.0	1,970	-	32.0	2,170	-
	180	AR2219	31.0	1,900	-	35.0	2,105	-
	180	Bench Mark 2	32.5	1,865	-	35.5	2,035	-
	180	AR2206	35.0	1,990	-	38.0	2,150	-
	180	AR2206H	35.0	1,990	-	39.0	2,230	-
	180	AR2208	37.0	1,970	-	40.5	2,195	-
	200	AR2207	27.0	1,815	-	30.5	2,000	-
	200	AR2219	31.0	1,865	-	33.8	1,990	-
	200	Bench Mark 2	32.5	1,845	-	35.5	1,985	-
	200	AR2206	34.0	1,845	-	37.0	2,010	-
	200	AR2206H	35.0	1,920	-	38.5	2,110	-
	200	AR2208	36.0	1,965	-	39.5	2,140	-
	220	AR2207	26.0	1,745	-	29.0	1,870	-
	220	AR2219	29.0	1,690	-	32.5	1,870	-
	220	Bench Mark 2	31.0	1,725	-	34.0	1,865	-
	220	AR2206	32.0	1,710	-	35.0	1,900	-
	220	AR2206H	33.0	1,850	-	36.3	2,010	-
	220	AR2208	34.0	1,805	-	38.0	2,000	-
356 Winchester 20" Barrel								
	180	AR2205	24.0	1,880	-	30.0	2,240	-
	180	AR2207	40.0	2,440	-	43.0	2,600	-
	180	AR2219	44.0	2,360	-	47.0	2,550	-
	180	AR2206H	46.0	2,360	-	49.0	2,535	-
	200	AR2207	37.0	2,200	-	40.0	2,385	-
	200	AR2219	41.0	2,200	-	44.0	2,340	-
	200	AR2206H	43.0	2,170	-	46.0	2,340	-
	250	AR2207	34.0	1,880	-	37.0	2,135	-
	250	AR2219	38.0	1,865	-	41.0	2,105	-
	250	AR2206H	40.0	1,920	-	43.0	2,130	-
358 Winchester 26" Barrel								
	180	AR2207	40.0	2,525	-	43.0	2,710	-
	180	AR2219	40.0	2,380	-	44.0	2,520	-
	180	Bench Mark 2	43.0	2,420	-	47.0	2,575	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
358 Winchester 26" Barrel (cont.)								
	180	AR2206H	44.0	2,410	-	48.0C	2,605	-
	180	AR2208	47.0	2,440	-	51.0C	2,595	-
	200	AR2207	38.0	2,360	-	41.0	2,530	-
	200	AR2219	40.0	2,305	-	44.8	2,490	-
	200	Bench Mark 2	42.0	2,320	-	46.2	2,495	-
	200	AR2206H	44.0	2,315	-	48.0C	2,520	-
	200	AR2208	47.0	2,375	-	51.0C	2,530	-
	220	AR2207	38.0	2,285	-	41.0	2,500	-
	220	AR2219	40.0	2,245	-	44.0	2,370	-
	220	Bench Mark 2	41.0	2,185	-	45.0	2,360	-
	220	AR2206H	43.0	2,225	-	47.5C	2,420	-
	220	AR2208	46.0	2,225	-	50.0C	2,445	-
	250	AR2207	36.0	2,200	-	39.0	2,310	-
	250	AR2219	38.0	2,095	-	42.5	2,260	-
	250	Bench Mark 2	38.0	2,030	-	42.0	2,175	-
	250	AR2206H	40.0	2,055	-	44.5C	2,260	-
	250	AR2208	43.0	2,120	-	47.0C	2,280	-
35 Whelen 24" Barrel								
	180	AR2219	55.0	2,705	-	58.0	2,830	-
	180	AR2206	55.5	2,640	-	58.5	2,785	-
	180	AR2206H	56.0	2,650	-	60.0	2,800	-
	180	AR2208	54.0	2,610	-	60.0	2,765	-
	200	AR2219	52.0	2,540	-	56.0	2,690	-
	200	AR2206	52.5	2,545	-	56.5	2,725	-
	200	AR2206H	54.0	2,545	-	57.0	2,690	-
	200	AR2208	52.0	2,510	-	57.0	2,655	-
	220	AR2219	50.0	2,390	-	54.0	2,565	-
	220	AR2206	50.5	2,400	-	54.5	2,580	-
	220	AR2206H	51.0	2,460	-	55.0	2,590	-
	225	AR2208	51.0	2,440	-	56.0	2,590	-
	250	AR2219	48.0	2,250	-	52.0	2,400	-
	250	AR2206	48.0	2,260	-	52.0	2,450	-
	250	AR2206H	49.0	2,330	-	53.0	2,455	-
	250	AR2208	50.0	2,350	-	55.0	2,485	-
350 Remington Magnum 26" Barrel								
	180	AR2207	48.0	2,620	-	51.0	2,810	-
	180	AR2219	53.0	2,690	-	58.0	2,895	-
	180	AR2206	54.0	2,640	-	59.0	2,960	-
	180	AR2206H	56.0	2,695	-	61.0	3,015	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
350 Remington Magnum 26" Barrel (cont.)								
	180	AR2208	57.0	2,760	-	62.0	3,000	-
	180	AR2213SC	57.0	2,070	-	62.0	2,255	-
	200	AR2207	45.0	2,380	-	48.0	2,510	-
	200	AR2219	50.0	2,425	-	55.0	2,685	-
	200	AR2206	52.0	2,565	-	56.0	2,795	-
	200	AR2206H	54.5	2,625	-	59.0	2,820	-
	200	AR2208	55.0	2,650	-	60.0	2,830	-
	200	AR2213SC	56.0	1,970	-	61.0	2,145	-
	220	AR2207	43.0	2,305	-	46.0	2,425	-
	220	AR2219	48.0	2,295	-	52.0	2,475	-
	220	AR2206	50.0	2,417	-	54.0	2,610	-
	220	AR2206H	51.5	2,535	-	56.0	2,650	-
	220	AR2208	53.0	2,420	-	57.0	2,600	-
	220	AR2213SC	55.0	1,965	-	60.0	2,140	-
	250	AR2207	39.0	2,070	-	42.0	2,190	-
	250	AR2219	45.0	2,090	-	49.0	2,335	-
	250	AR2206	49.0	2,220	-	52.5	2,450	-
	250	AR2206H	49.5	2,225	-	54.0	2,500	-
	250	AR2208	51.0	2,410	-	55.0	2,550	-
	250	AR2213SC	54.0	1,945	-	59.0	2,125	-
358 Norma Magnum 24" Barrel								
	180	AR2208	62.0	2,795	-	66.0	3,100	-
	180	AR2209	75.0	2,895	-	79.0	3,020	-
	200	AR2208	60.0	2,615	-	65.0	3,000	-
	200	AR2209	74.0	2,850	-	78.0	2,985	-
	250	AR2206H	61.0	2,545	-	65.0	2,735	-
	250	AR2208	57.0	2,480	-	63.0	2,700	-
	250	AR2209	71.0	2,635	-	75.0	2,780	-
358 Shooting Times Alaskan 24" Barrel								
	225	AR2209	82.0	2,950	-	87.0	3,120	-
	250	AR2209	79.0	2,690	-	84.0	2,935	-
	250	AR2213SC	85.0	2,720	-	90.0	2,985	-
	250	AR2217	85.0	2,740	-	90.0	2,810	-
	265	AR2209	77.0	2,685	-	83.0	2,895	-
	275	AR2209	75.0	2,580	-	81.0	2,785	-
	300	AR2209	71.0	2,430	-	77.0	2,635	-
9mm x 57 Mauser 24" Barrel								
	250	AR2206	-	-	-	45.0	2,250	-
	250	AR2208	-	-	-	49.0	2,250	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
9mm x 57 Mauser 24" Barrel (cont.)								
	280	AR2206	-	-	-	41.5	2,100	-
	280	AR2208	-	-	-	45.0	2,100	-
9.3mm x 62 Mauser 24" Barrel								
	250	AR2206H	51.0	2,235	-	55.0	2,385	-
	250	AR2208	56.0	2,320	-	60.0C	2,455	-
	270	AR2206H	52.0	2,245	-	56.5	2,405	-
	270	AR2208	55.0	2,290	-	59.50	2,440	-
	270	AR2209	63.0	2,320	-	67.0C	2,440	-
	286	AR2206H	51.0	2,130	-	55.5	2,330	-
	286	AR2208	55.0	2,240	-	59.0C	2,350	-
	286	AR2209	64.0	2,320	-	67.0C	2,410	-
	300	AR2206H	47.0	1,980	-	52.0	2,135	-
	300	AR2208	52.0	2,085	-	56.0	2,195	-
	300	AR2209	60.0	2,140	-	64.0C	2,290	-
9.3mm x 64 Brennecke 26" Barrel								
	231-234	AR2208	-	-	-	68.0	2,700	-
	231-234	AR2209	-	-	-	73.0	2,700	-
	258	AR2208	-	-	-	66.5	2,500	-
	258	AR2209	-	-	-	70.5	2,500	-
	285-286	AR2208	-	-	-	63.0	2,300	-
	285-286	AR2209	-	-	-	67.5	2,300	-
	293	AR2208	-	-	-	62.0	2,250	-
	293	AR2209	-	-	-	67.0	2,250	-
9.3mm x 74R 24" Barrel								
	250	AR2206H	52.0	2,170	-	56.0	2,320	-
	250	AR2208	55.0	2,210	-	58.0	2,325	-
	250	AR2209	64.0	2,250	-	68.0C	2,370	-
	270	AR2208	50.0	2,105	-	54.5	2,260	-
	270	AR2209	64.0	2,290	-	68.0C	2,405	-
	286	AR2208	51.0	2,125	-	54.0	2,200	-
	286	AR2209	61.5	2,210	-	65.5C	2,325	-
	286	AR2213SC	66.0	2,120	-	70.0C	2,230	-
	300	AR2209	58.0	2,110	-	62.0C	2,210	-
	300	AR2213SC	61.0	1,940	-	67.0C	2,130	-
38-55 Winchester 24" Barrel								
L	250	Trail Boss	6.0	840	-	7.0	910	-
L	250	AR2207	20.0	1,430	-	24.0	1,740	-
L	250	AR2219	24.0	1,535	-	27.0	1,690	-
L	250	AR2206H	21.0	1,200	-	26.0	1,600	-

**C** = Compressed Load: **L** = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
38-55 Winchester 24" Barrel (cont.)								
	255	AR2207	24.0	1,555	-	28.0	1,790	-
	255	AR2219	27.0	1,605	-	33.0	1,830	-
375 Winchester 24" Barrel								
	200	AR2207	35.0	2,290	-	38.0C	2,480	-
	200	AR2219	39.0	2,225	-	42.0C	2,420	-
	220	AR2207	31.0	2,065	-	34.0	2,235	-
	220	AR2219	35.0	2,030	-	38.5C	2,235	-
376 Steyr 24" Barrel								
	210	AR2219	63.0	2,865	50,900 psi	67.5	3,010	59,800 psi
	210	Bench Mark 2	63.0	2,775	45,000 psi	68.0	2,945	54,000 psi
	210	AR2206H	64.0	2,765	45,200 psi	68.0C	2,890	50,600 psi
	210	AR2208	65.0	2,670	40,800 psi	68.0C	2,765	44,800 psi
	225	AR2219	58.0	2,705	53,100 psi	63.0	2,840	59,900 psi
	225	Bench Mark 2	62.0	2,730	50,600 psi	67.0C	2,890	59,700 psi
	225	AR2206H	64.0	2,770	51,000 psi	68.0C	2,890	58,200 psi
	225	AR2208	64.0	2,630	45,600 psi	68.0C	2,770	52,400 psi
	235	AR2219	59.0	2,710	58,000 psi	63.0	2,795	59,900 psi
	235	Bench Mark 2	62.0	2,690	50,900 psi	66.5	2,835	59,900 psi
	235	AR2206H	64.0	2,710	50,100 psi	68.0C	2,845	59,000 psi
	235	AR2208	64.0	2,620	47,200 psi	68.0C	2,735	52,300 psi
	250	AR2219	56.0	2,570	55,700 psi	60.5	2,685	60,100 psi
	250	Bench Mark 2	59.0	2,575	51,200 psi	63.5	2,715	60,100 psi
	250	AR2206H	60.0	2,580	48,600 psi	65.0	2,730	59,800 psi
	250	AR2208	64.0	2,590	51,200 psi	68.0C	2,715	58,000 psi
	260	AR2219	52.0	2,405	54,900 psi	56.0	2,510	60,200 psi
	260	Bench Mark 2	57.0	2,455	51,400 psi	60.5	2,585	59,700 psi
	260	AR2206H	59.0	2,500	53,800 psi	62.5	2,615	59,400 psi
	260	AR2208	62.0	2,465	49,100 psi	67.5C	2,650	60,000 psi
	270	AR2219	53.0	2,380	50,800 psi	57.0	2,520	59,600 psi
	270	Bench Mark 2	55.0	2,400	50,500 psi	59.0	2,550	59,500 psi
	270	AR2206H	58.0	2,460	52,700 psi	62.0C	2,580	59,400 psi
	270	AR2208	61.0	2,445	50,000 psi	65.5C	2,610	60,100 psi
	300	AR2219	52.0	2,235	53,600 psi	55.0	2,320	60,000 psi
	300	Bench Mark 2	52.0	2,175	49,000 psi	56.5	2,345	59,900 psi
	300	AR2206H	55.0	2,250	51,900 psi	59.5	2,390	60,200 psi
	300	AR2208	58.0	2,255	50,000 psi	62.5C	2,410	59,700 psi
375 Holland & Holland Magnum 24" Barrel								
	200	AR2206H	67.0	2,830	-	78.5	3,115	-
	200	AR2208	65.0	2,840	-	76.0	3,120	-

C = Compressed Load: L = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
375 Holland & Holland Magnum 24" Barrel (cont.)								
	210	AR2206H	67.5	2,865	-	75.0	3,060	-
	210	AR2208	65.0	2,810	-	72.5	3,025	-
	235	AR2206H	69.0	2,745	-	74.0	2,895	-
	235	AR2208	65.0	2,685	-	70.0	2,820	-
	250	AR2206H	64.0	2,575	-	69.0	2,695	-
	250	AR2208	62.0	2,530	-	66.5	2,640	-
	250	AR2209	78.0	2,620	-	83.0C	2,735	-
	260	AR2209	70.0	2,550	-	78.0	2,700	-
	260	AR2213SC	76.0	2,470	-	83.0C	2,620	-
	270	AR2206H	61.0	2,485	-	68.0	2,625	-
	270	AR2208	63.0	2,530	-	67.0	2,620	-
	270	AR2209	80.0	2,610	-	83.0C	2,695	-
	300	AR2206H	61.0	2,410	-	65.0	2,505	-
	300	AR2208	58.0	2,345	-	62.0	2,455	-
	300	AR2209	77.0	2,540	-	81.5C	2,645	-
375 Ruger 24" Barrel								
	235	AR2206H	66.7	2,770	52,800 psi	71.0	2,880	58,500 psi
	235	AR2208	69.1	2,710	48,600 psi	73.5	2,885	59,600 psi
	250	AR2208	67.7	2,655	53,200 psi	72.0	2,775	59,000 psi
	250	AR2209	77.5	2,675	51,400 psi	82.5	2,835	59,000 psi
	260	AR2208	67.3	2,620	52,200 psi	71.6	2,750	59,200 psi
	260	AR2209	78.0	2,680	50,800 psi	83.5C	2,840	60,100 psi
	270	AR2209	78.5	2,615	47,800 psi	83.5C	2,785	58,400 psi
	300	AR2209	75.9	2,510	48,300 psi	80.7	2,660	59,600 psi
	300	AR2213SC	82.7	2,455	48,100 psi	88.0C	2,610	57,800 psi
375 Weatherby Magnum 24" Barrel								
	210	AR2206H	69.0	2,825	-	74.0	2,945	-
	210	AR2208	70.0	2,780	-	75.0	2,900	-
	210	AR2209	91.0	3,020	-	95.5C	3,110	-
	210	AR2213SC	95.0	2,860	-	98.0C	2,940	-
	225	AR2206H	69.0	2,790	-	73.5	2,895	-
	225	AR2208	70.0	2,715	-	74.5	2,850	-
	225	AR2209	89.0	2,940	-	94.5	3,070	-
	225	AR2213SC	96.0	2,870	-	99.0C	2,960	-
	235	AR2206H	69.0	2,740	-	73.3	2,835	-
	235	AR2208	69.0	2,670	-	73.5	2,775	-
	235	AR2209	85.0	2,810	-	90.5	2,950	-
	235	AR2213SC	94.0	2,815	-	99.0C	2,910	-
	250	AR2209	83.0	2,765	-	88.0	2,875	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
375 Weatherby Magnum 24" Barrel (cont.)								
	250	AR2213SC	91.0	2,740	-	97.0C	2,870	-
	260	AR2209	83.0	2,725	-	88.0	2,820	-
	260	AR2213SC	90.0	2,690	-	96.0C	2,810	-
	270	AR2209	83.0	2,710	-	88.0	2,790	-
	270	AR2213SC	90.0	2,630	-	96.0C	2,790	-
	285	AR2209	81.0	2,620	-	86.5C	2,735	-
	285	AR2213SC	89.0	2,605	-	94.5C	2,725	-
	300	AR2209	80.0	2,545	-	85.0	2,640	-
	300	AR2213SC	87.0	2,500	-	93.0C	2,650	-
375 Remington Ultra Magnum 24" Barrel								
	210	AR2208	85.0	3,110	54,700 psi	91.0	3,270	63,100 psi
	210	AR2209	96.0	3,080	52,100 psi	102.5	3,295	63,300 psi
	225	AR2209	95.0	3,025	52,200 psi	101.0	3,215	62,800 psi
	225	AR2213SC	105.0	3,060	56,200 psi	108.0C	3,140	60,600 psi
	235	AR2209	94.0	3,000	54,600 psi	100.0	3,165	63,500 psi
	235	AR2213SC	102.0	2,955	53,800 psi	108.0C	3,110	62,800 psi
	250	AR2209	89.0	2,840	52,800 psi	94.5	3,010	62,700 psi
	250	AR2213SC	98.0	2,850	55,100 psi	103.0	3,090	62,700 psi
	260	AR2209	88.0	2,820	56,300 psi	92.5	2,935	62,900 psi
	260	AR2213SC	95.0	2,765	54,100 psi	101.0	2,925	62,900 psi
	270	AR2209	90.0	2,765	52,400 psi	95.0	2,930	62,600 psi
	270	AR2213SC	99.0	2,780	54,200 psi	104.0C	2,920	62,900 psi
	285	AR2209	88.0	2,725	57,500 psi	92.5	2,835	62,600 psi
	285	AR2213SC	96.0	2,705	55,500 psi	101.0	2,830	62,900 psi
	300	AR2209	85.0	2,600	54,400 psi	90.0	2,735	62,700 psi
	300	AR2213SC	92.0	2,595	54,600 psi	97.0	2,720	62,500 psi
	300	AR2217	103.0	2,630	54,000 psi	105.0C	2,680	57,600 psi
378 Weatherby Magnum 26" Barrel								
	235	AR2209	102.0	3,005	-	109.0	3,225	-
	235	AR2213SC	107.0	2,970	-	117.0	3,200	-
	270	AR2209	99.0	2,780	-	105.0	3,090	-
	270	AR2213SC	105.0	2,725	-	115.0	3,100	-
	300	AR2209	95.0	2,595	-	100.0	2,940	-
	300	AR2213SC	102.0	2,625	-	112.0	2,925	-
38-40 26" Barrel								
	130	AR2205	-	-	-	28.0	2,000	-
	180	AR2205	-	-	-	24.5	1,750	-
40-65 Winchester 24" Barrel								
L	400	Trail Boss	11.0	890	-	12.0	915	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)		POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
				POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
40-65 Winchester 24" Barrel (cont.)									
L	400	AR2205	20.0	1,275	-	23.0	1,410	-	
L	400	AR2207	28.0	1,440	-	31.0	1,570	-	
L	400	AR2219	30.5	1,400	-	33.0	1,520	-	
L	400	Bench Mark 2	29.0	1,320	-	32.5	1,490	-	
L	400	AR2206H	33.0	1,425	-	36.0	1,555	-	
L	400	AR2208	35.0	1,440	-	38.0	1,560	-	
404 Jeffery 26" Barrel									
	400	AR2206	-	-	-	63.0	2,100	-	
	400	AR2208	-	-	-	71.0	2,100	-	
	400	AR2209	-	-	-	80.0	2,100	-	
405 Winchester 24" Barrel									
	300	AR2207	37.5	1,925	32,300 psi	41.5	2,090	43,000 psi	
	300	AR2219	44.0	1,995	34,800 psi	49.0	2,150	41,200 psi	
	300	Bench Mark 2	53.0	2,205	34,100 psi	59.0	2,405	42,200 psi	
	300	AR2206H	53.0	2,115	33,200 psi	59.0	2,300	40,000 psi	
	300	AR2208	55.0	2,080	32,600 psi	61.0	2,275	41,200 psi	
	400	AR2207	33.0	1,580	33,600 psi	36.5	1,720	43,400 psi	
	400	AR2206H	45.5	1,800	37,100 psi	50.5	1,945	44,900 psi	
	400	AR2208	48.0	1,790	37,000 psi	52.0	1,930	44,300 psi	
416 Remington Magnum 24" Barrel									
	300	AR2206H	75.0	2,565	-	80.0	2,710	-	
	300	AR2208	77.0	2,560	-	82.5	2,710	-	
	350	AR2206H	75.0	2,475	-	80.0	2,600	-	
	350	AR2208	77.0	2,520	-	82.0	2,620	-	
	400	AR2206H	71.0	2,270	-	76.0	2,390	-	
	400	AR2208	72.0	2,275	-	77.0	2,410	-	
	400	AR2209	85.0	2,305	-	88.0C	2,395	-	
416 Weatherby Magnum 24" Barrel									
	300	AR2209	117.0	2,915	-	122.0	3,050	-	
	350	AR2209	112.0	2,730	-	118.0	2,890	-	
	400	AR2209	105.0	2,565	-	110.0	2,690	-	
	400	AR2213SC	116.0	2,625	-	120.0	2,705	-	
	400	AR2217	116.0	2,350	-	120.0	2,420	-	
416 Rigby 24" Barrel									
	300	AR2209	92.0	2,580	-	99.0	2,775	-	
	300	AR2213SC	102.0	2,555	-	109.5	2,725	-	
	325	AR2209	94.0	2,550	-	99.0	2,660	-	
	325	AR2213SC	102.0	2,520	-	107.0	2,630	-	
	350	AR2209	94.0	2,505	-	99.0	2,640	-	

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
416 Rigby 24" Barrel (cont.)								
	350	AR2213SC	101.0	2,460	-	107.0	2,610	-
	350	AR2217	112.0	2,480	-	116.0C	2,550	-
	400	AR2209	89.0	2,335	-	94.0	2,455	-
	400	AR2213SC	97.0	2,320	-	102.0	2,430	-
	400	AR2217	110.0	2,370	-	116.0C	2,470	-
44-40 Winchester 20" Barrel								
L	200	AS30N	-	-	-	5.00	925	-
L	200	AP70N	-	-	-	7.30	1,070	-
L	200	AR2205	-	-	-	24.00	1,450	-
L	215	AR2205	-	-	-	22.00	1,380	-
	240	AR2205	-	-	-	20.00	1,370	-
Data only for use in Winchester Model 92 & 94, Marlin Model 1894 and Remington Model 14.5 rifles in excellent condition. Either slug the bore to determine appropriate bullet diameters or use 0.427 inch bullet diameters only. Do not use 0.429 inch bullets without first checking barrel bore size.								
44 Remington Magnum (Rifle Only) 20" Barrel								
L	165	AS30N	4.4	950	-	5.5	1,150	-
L	165	AP70N	6.5	1,010	-	7.2	1,140	-
	180	AR2205	27.5	2,005	-	29.0	2,115	-
L	185	AS30N	4.2	860	-	6.0	1,160	-
L	185	AP70N	6.4	995	-	7.4	1,180	-
L	200	AS30N	4.2	875	-	6.4	1,170	-
L	200	AP70N	6.8	1,065	-	7.8	1,210	-
	200	AR2205	25.0	1,840	-	27.0	1,980	-
	210	AR2205	25.0	1,845	-	27.0	1,970	-
	225	AR2205	23.0	1,720	-	25.5	1,900	-
L	240	AS30N	4.3	840	-	6.2	1,060	-
L	240	AP70N	6.5	925	-	10.2	1,375	-
	240	AR2205	22.0	1,625	-	24.0	1,780	-
	270	AR2205	20.5	1,475	-	22.5	1,640	-
	280	AR2205	20.0	1,355	-	22.0	1,545	-
	300	AR2205	18.0	1,320	-	20.0	1,450	-
CAUTION: DO NOT use the above loads in handguns as chamber pressures will be unsafe for such applications.								
444 Marlin 24" Barrel								
	200	AR2207	46.0	2,309	-	51.2C	2,565	-
	200	AR2219	50.0	2,140	-	52.0C	2,205	-
	200	Bench Mark 2	50.0	2,040	-	54.0	2,210	-
	225	AR2207	42.2	2,105	-	46.9	2,360	-
	225	AR2219	47.0	2,030	-	50.0C	2,145	-
	225	Bench Mark 2	49.0	2,030	-	52.0C	2,130	-

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# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
444 Marlin 24" Barrel (cont.)								
	240	AR2207	44.0	2,205	-	49.2C	2,500	-
	240	AR2219	49.5	2,050	-	52.0C	2,185	-
	240	Bench Mark 2	51.0	2,040	-	55.0C	2,235	-
	240	AR2206H	51.0	2,000	-	53.0C	2,070	-
	260	AR2207	41.0	2,015	-	45.5	2,195	-
	260	AR2219	47.0	1,945	-	52.0C	2,160	-
	260	AR2206H	50.0	1,915	-	53.0C	2,060	-
	265	AR2207	42.0	2,035	-	47.0	2,275	-
	265	AR2219	47.0	1,990	-	52.0C	2,165	-
	265	Bench Mark 2	49.0	1,910	-	53.0C	2,140	-
	265	AR2206H	50.0	1,945	-	53.0C	2,080	-
	270	AR2207	42.0	2,090	-	46.5	2,260	-
	270	AR2219	47.0	1,975	-	52.0C	2,170	-
	270	Bench Mark 2	50.0	1,980	-	54.0C	2,165	-
	270	AR2206H	50.0	1,950	-	53.0C	2,080	-
	275	AR2207	40.0	1,975	-	44.5	2,170	-
	275	AR2219	46.0	1,930	-	51.0C	2,145	-
	275	Bench Mark 2	48.0	1,930	-	51.0C	2,070	-
	275	AR2206H	47.0	1,780	-	52.0C	2,020	-
	280	AR2207	38.0	1,940	-	42.5	2,110	-
	280	AR2219	44.5	1,900	-	49.5	2,120	-
	280	Bench Mark 2	46.0	1,935	-	49.5C	2,070	-
	280	AR2206H	47.0	1,875	-	52.0C	2,090	-
	280	AR2208	49.0	1,915	-	52.0C	2,025	-
	300	AR2207	38.5	1,915	-	42.5	2,080	-
	300	AR2219	43.0	1,775	-	48.0	2,040	-
	300	Bench Mark 2	46.0	1,900	-	48.5	1,995	-
	300	AR2206H	47.0	1,840	-	50.0C	1,930	-
	300	AR2208	47.0	1,785	-	50.0C	1,915	-
45/70 Government Lever Actions 24" Barrel								
	300	AR2207	55.0	2,220	-	60.0	2,425	-
	300	AR2219	57.0	2,000	-	63.0C	2,250	-
	350	AR2207	48.5	2,035	-	54.0	2,190	-
	350	Bench Mark 2	56.0	1,885	-	60.0C	2,090	-
	350	AR2206H	53.0	1,785	-	59.0C	2,045	-
	350	AR2208	54.0	1,785	-	60.0C	2,015	-
	400	AR2207	46.0	1,855	-	50.5	2,000	-
	400	Bench Mark 1	48.0	1,800	-	52.0	1,950	-

This data is intended for the 1895 lever action Marlin rifles only.

**C** = Compressed Load: **L** = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
45/70 Government Lever Actions 24" Barrel (cont.)								
	400	AR2219	50.0	1,765	-	55.0C	1,985	-
	400	Bench Mark 2	55.0	1,855	-	58.5C	1,985	-
	400	AR2206	54.0	1,865	-	56.0	1,935	-
	400	AR2206H	50.0	1,615	-	55.0C	1,860	-
	400	AR2208	50.0	1,655	-	55.0C	1,845	-

This data is intended for the 1895 lever action Marlin rifles only.

<b>45/70 Government Modern Rifles 24" Barrel</b>								
	300	AR2207	59.5	2,395	-	63.0	2,530	-
	350	AR2207	50.5	2,105	-	56.0	2,300	-
	350	AR2219	52.0	1,900	-	57.0C	2,145	-
	400	AR2207	48.0	1,915	-	53.0	2,110	-
	500	Bench Mark 2	50.0	1,650	-	54.0	1,780	-
	500	AR2206	50.0	1,665	-	55.0	1,830	-
	500	AR2208	54.0	1,685	-	57.0	1,785	-

Note: This data is for use in Ruger No.1 and No.3 single shots, Browning Model 1885 Single Shot and Siamese Mauser Bolt Action Rifles.

<b>45/70 Government Trapdoor Rifle 24" Barrel</b>								
L	300	Trail Boss	14.0	1,200	-	16.5	1,285	-
	300	AR2205	37.0	1,790	-	40.0	1,935	-
	300	AR2207	45.0	1,805	-	55.0	2,220	-
	300	Bench Mark 1	46.0	1,725	-	56.0	2,100	-
	300	AR2219	54.0	1,850	-	60.0	2,140	-
	300	Bench Mark 2	59.5	1,905	-	63.5C	2,115	-
	300	AR2206	58.0	1,850	-	62.0C	2,030	-
	300	AR2206H	58.0	1,805	-	62.0C	1,975	-
	300	AR2208	57.0	1,770	-	63.0C	2,020	-
L	385	Trail Boss	14.0	1,075	-	16.0	1,140	-
L	385	AR2207	28.0	1,300	-	32.0	1,485	-
L	385	Bench Mark 2	50.0	1,620	-	53.0	1,780	-
L	385	AR2206H	35.0	1,280	-	42.0	1,525	-
L	385	AR2208	42.5	1,535	-	52.5	1,805	-
	400	AR2207	40.0	1,580	-	44.0	1,740	-
	400	Bench Mark 1	42.0	1,520	-	46.00	1,665	-
	400	Bench Mark 2	47.0	1,590	-	52.00	1,760	-
	400	AR2206	47.0	1,600	-	52.00	1,770	-
	400	AR2208	49.0	1,595	-	54.0	1,760	-
L	405	Trail Boss	12.0	970	-	13.0	1,010	-
L	405	AR2207	27.0	1,250	-	31.0	1,460	-

This data is intended for Springfield "Trapdoor" 1886, rolling block and antique replica rifles.

C = Compressed Load: L = Lead Projectile



# RIFLE

CALIBRE		BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
				POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
45/70 Government Trapdoor Rifle 24" Barrel (cont.)									
	L	405	Bench Mark 2	47.0	1,565	-	50.0	1,695	-
	L	405	AR2206H	40.0	1,425	-	48.0	1,645	-
	L	405	AR2208	40.0	1,390	-	50.0	1,720	-
	L	485	Trail Boss	8.0	700	-	10.0	805	-
	L	485	AR2207	28.0	1,280	-	32.0	1,435	-
	L	485	Bench Mark 2	38.0	1,290	-	43.0	1,505	-
This data is intended for Springfield "Trapdoor" 1886, rolling block and antique replica rifles.									
45-90 Winchester 24" Barrel									
		300	AR2207	-	-	-	36.50	1,500	-
		400	AR2207	-	-	-	30.50	1,350	-
577/450 Martini Henry 24" Barrel									
	L	400	AR2207	-	-	-	37.00	1,300	-
450 Nitro Express 24" Barrel									
		500	AR2208	-	-	-	84.00	2,150	-
		500	AR2209	-	-	-	100.00	2,150	-
450 Marlin 24" Barrel									
		250	AR2207	51.0	2,255	33,600 psi	57.0C	2,510	42,200 psi
		300	AR2207	48.0	2,115	33,900 psi	53.0	2,320	42,200 psi
		300	AR2219	56.0	2,160	32,900 psi	59.0C	2,290	37,300 psi
		350	AR2207	43.0	1,940	35,700 psi	48.5	2,120	42,200 psi
		350	AR2219	53.0	2,045	36,500 psi	58.0C	2,195	42,300 psi
		350	Bench Mark 2	56.0	2,005	33,300 psi	59.0C	2,130	38,600 psi
		400	AR2207	41.0	1,870	41,200 psi	45.5	1,960	42,600 psi
		400	AR2219	48.0	1,860	34,800 psi	52.5C	2,025	41,900 psi
		400	Bench Mark 2	50.0	1,810	33,000 psi	55.0C	2,010	42,500 psi
		400	AR2206H	51.0	1,815	34,700 psi	56.0C	1,985	42,000 psi
		400	AR2208	54.0	1,805	33,500 psi	57.0C	1,910	38,000 psi
45-120 Sharps 24" Barrel									
	L	350	Trail Boss	29.0	1,320	-	32.0	1,370	-
	L	350	AR2207	46.0	1,785	-	49.0	1,905	-
	L	350	AR2219	50.0	1,715	-	53.0	1,875	-
	L	350	Bench Mark 2	53.0	1,810	-	57.0	1,920	-
	L	350	AR2206H	59.0	1,875	-	64.0	2,030	-
	L	405	Trail Boss	26.0	1,155	-	30.0	1,250	-
	L	405	AR2207	45.0	1,710	-	48.0	1,820	-
	L	405	AR2219	49.0	1,665	-	52.5	1,795	-
	L	405	Bench Mark 2	53.0	1,805	-	58.0	1,920	-
	L	405	AR2206H	58.0	1,850	-	64.0	2,010	-
	L	405	AR2208	59.0	1,765	-	63.0	1,860	-

**C** = Compressed Load: **L** = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)		POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
				POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
45-120 Sharps 24" Barrel (cont.)									
L	500	Trail Boss	26.0	1,050	-	29.0	1,105	-	
	500	AR2207	42.0	1,525	-	46.5	1,650	-	
	500	AR2219	48.0	1,570	-	52.0	1,695	-	
	500	Bench Mark 2	50.0	1,605	-	54.5	1,750	-	
	500	AR2206H	54.0	1,640	-	60.0	1,810	-	
	500	AR2208	56.0	1,620	-	61.0	1,740	-	
458 Winchester Magnum 24" Barrel									
L	300	Trail Boss	19.0	1,185	-	23.0	1,280	-	
	300	AR2207	72.0	2,670	-	77.0C	2,785	-	
	300	AR2219	78.0	2,635	-	83.0C	2,755	-	
	300	Bench Mark 2	74.0	2,375	-	80.0C	2,525	-	
	350	AR2207	67.0	2,425	-	72.0	2,550	-	
	350	AR2219	75.0	2,470	-	80.0C	2,590	-	
	350	Bench Mark 2	71.0	2,250	-	79.0C	2,470	-	
	350	AR2206	77.0	2,425	-	79.5	2,480	-	
	350	AR2206H	77.0	2,420	-	80.0C	2,495	-	
	L	385	Trail Boss	16.0	1,020	-	19.0	1,125	-
		400	AR2207	61.0	2,195	-	67.0	2,325	-
400		AR2219	68.5	2,210	-	76.0C	2,410	-	
400		Bench Mark 2	70.0	2,140	-	78.0C	2,345	-	
400		AR2206	72.0	2,200	-	77.0C	2,345	-	
400		AR2206H	72.0	2,215	-	77.0C	2,350	-	
400		AR2208	74.0	2,245	-	77.0C	2,310	-	
L	405	Trail Boss	18.0	1,040	-	21.0	1,080	-	
	450	AR2207	56.5	2,000	-	60.0	2,090	-	
	450	AR2219	67.0	2,140	-	71.0C	2,220	-	
	450	Bench Mark 2	70.0	2,090	-	75.0C	2,220	-	
	450	AR2206H	70.0	2,110	-	74.0C	2,205	-	
	450	AR2208	70.0	2,085	-	74.0C	2,195	-	
L	485	Trail Boss	13.0	860	-	19.0	960	-	
	500	AR2207	53.0	1,885	-	58.5	1,990	-	
	500	AR2219	62.5	1,935	-	69.5C	2,110	-	
	500	Bench Mark 2	68.0	2,015	-	73.0C	2,125	-	
	500	AR2206	69.0	2,050	-	73.5C	2,185	-	
	500	AR2206H	70.0	2,070	-	74.0C	2,205	-	
	500	AR2208	70.0	2,055	-	74.0C	2,150	-	
	460 Weatherby Magnum 26" Barrel								
	350	AR2206H	100.0	2,515	-	110.0	2,760	-	
	350	AR2209	115.0	2,595	-	120.0	2,740	-	

C = Compressed Load: L = Lead Projectile

# RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
460 Weatherby Magnum 26" Barrel (cont.)								
	350	AR2213SC	118.0	2,480	-	128.0	2,680	-
	400	AR2206H	97.0	2,405	-	107.0	2,590	-
	400	AR2209	112.0	2,430	-	118.0	2,610	-
	400	AR2213SC	117.0	2,435	-	127.0	2,565	-
	500	AR2206H	95.0	2,315	-	105.0	2,480	-
	500	AR2209	108.0	2,370	-	115.0	2,510	-
	500	AR2213SC	116.0	2,385	-	126.0	2,470	-
	600	AR2209	98.0	2,290	-	104.0	2,440	-
	600	AR2213SC	110.0	2,300	-	115.0	2,460	-
470 Nitro Express 24" Barrel								
	500	AR2209	108.0	2,025	-	112.0	2,140	-
	500	AR2213SC	114.0	2,040	-	119.0	2,160	-
	500	AR2217	120.0	1,950	-	125.0	2,065	-
	600	AR2213SC	100.0	1,825	-	105.0	1,940	-
	600	AR2217	110.0	1,845	-	115.0	1,935	-
500 Jeffery 45" Barrel								
	535	AR2206	-	-	-	96.0	2,300	-
50 Browning Machine Gun 45" Barrel								
	655	AR2218	-	-	-	248.0	3,030	-
	750	AR2218	-	-	-	233.0	2,800	-
	800	AR2218	-	-	-	225.0	2,725	-

**C** = Compressed Load: **L** = Lead Projectile



## **SINGLE ACTION DATA**

Due to its popularity, we again present a separate section for Single Action Data. Many of these loads were developed through an extensive program by the Hodgdon Powder Company Inc. of the USA, to whom we are indebted for their contribution.

# **SINGLE ACTION DATA**

# SINGLE ACTION DATA

## Introduction

Velocities for all cartridges listed are limited by the SAAMI maximum allowable pressures. Minimum loads are also established by pressure, since loads with very low pressure may fail to function in very cold weather, resulting in a bullet becoming lodged in the bore (please see the Warnings section of this guide). The average loss in velocity from the listed pressure barrel data when using a 4 $\frac{5}{8}$  inch barreled revolver is 175 fps. A 7 $\frac{1}{2}$  inch revolver will lose approximately 50 fps. Carbine will generally develop velocities similar to those listed in the data. Some carbine/cartridge combinations will exceed the velocities listed. Because of a wide variation in bullet diameter, chamber diameter, cylinder gap, case capacity and manufacturing variations in primers and powder, we suggest that you chronograph loads from your own firearms.

**DO NOT LOAD BELOW MINIMUM RECOMMENDATIONS.** Doing so could result in a bullet stuck in the bore.

## Long Range Rifle Data

The loads listed below are representative of common calibres used. As there are so many cartridges that could be used, only a few are shown.

**DO NOT USE ANY FILLER MATERIAL WITH**

**THESE LOADS,** as fillers can alter pressure and velocities decidedly. Velocities are limited to approximately 1,600 fps due to excessive leading at higher velocities. Use flat point bullets in tubular magazines.

## Shotgun

Any load suitable for trap or skeet is suitable for Single Action shooting. Shot loads of  $\frac{7}{8}$  oz., 1 oz. and 1 $\frac{1}{8}$  oz. are all that is required. Heavier loads generate more recoil and are, at best, unpleasant to shoot and, at worst, add time to your score. The loads included in this guide were selected for their performance and for component availability.

### Remember:

1. Smooth shells come out of a double-barrelled shotgun better than ribbed shells.
2. NO STEEL SHOT.
3. NO SHOT LARGER THAN #4. Size 6, 7 $\frac{1}{2}$  and 8 are most common.
4. CHECK YOUR RELOADS IN YOUR GUN FOR PROPER FUNCTION.

\*Damascus barrels should be considered unsafe with ANY powder.



# SINGLE ACTION RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS			
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE	
30-30 Winchester	24" Barrel								
	160 Cast	Trail Boss	6.5	995	20,500 cup	9.0	1,195	29,100 cup	
	160 Cast	AR2207	15.0	1,420	15,000 cup	17.0	1,616	20,600 cup	
	160 Cast	AR2206H	17.5	1,351	15,200 cup	21.0	1,562	23,100 cup	
32-40 Winchester	24" Barrel								
	196 Cast	Trail Boss	5.0	835	12,500 cup	6.0	935	25,300 cup	
	196 Cast	AR2205	12.6	1,200	-	13.0	1,367	18,000 cup	
38-55 Winchester	24" Barrel								
	250 Cast	Trail Boss	6.0	840	20,300 cup	7.0	910	25,600 cup	
	250 Cast	AR2207	18.5	1,410	17,100 cup	24.0	1,740	26,200 cup	
	250 Cast	AR2219	24.0	1,535	22,500 cup	27.0	1,690	27,600 cup	
	250 Cast	AR2206H	21.0	1,197	18,200 cup	26.0	1,600	26,500 cup	
40-65 Winchester	24" Barrel								
	400 Lead	Trail Boss	11.0	890	20,000 cup	12.0	915	21,200 cup	
	400 Lead	AR2205	20.0	1,275	18,900 cup	23.0	1,410	24,900 cup	
	400 Lead	AR2207	28.0	1,440	21,200 cup	31.0	1,570	24,700 cup	
	400 Lead	AR2219	30.5	1,400	19,200 cup	33.0	1,520	23,900 cup	
	400 Lead	Bench Mark 2	29.0	1,320	18,800 cup	32.5	1,490	25,000 cup	
	400 Lead	AR2206H	33.0	1,425	19,700 cup	36.0	1,555	24,200 cup	
	400 Lead	AR2208	35.0	1,440	20,100 cup	38.0	1,560	24,800 cup	
45-120 Sharps	24" Barrel								
	350 Lead	Trail Boss	29.0	1,320	20,500 cup	32.0	1,370	24,400 cup	
	350 Lead	AR2207	46.0	1,783	22,500 cup	49.0	1,903	27,500 cup	
	350 Lead	AR2219	50.0	1,717	21,000 cup	53.0	1,874	27,700 cup	
	350 Lead	Bench Mark 2	53.0	1,809	24,700 cup	57.0	1,922	26,800 cup	
	350 Lead	AR2206H	59.0	1,875	24,800 cup	64.0	2,031	26,900 cup	
	405 Lead	Trail Boss	26.0	1,155	18,300 cup	30.0	1,250	25,500 cup	
	405 Lead	AR2207	45.0	1,708	24,700 cup	48.0	1,818	27,200 cup	
	405 Lead	AR2219	49.0	1,665	23,200 cup	52.5	1,793	27,900 cup	
	405 Lead	Bench Mark 2	53.0	1,805	26,500 cup	58.0	1,917	27,200 cup	
	405 Lead	AR2206H	58.0	1,849	26,000 cup	64.0	2,012	28,300 cup	
	405 Lead	AR2208	59.0	1,763	24,200 cup	63.0	1,858	28,200 cup	
	500 Lead	Trail Boss	26.0	1,050	20,100 cup	29.0	1,105	24,300 cup	
	500 Lead	AR2207	42.0	1,523	25,200 cup	46.5	1,650	28,300 cup	
	500 Lead	AR2219	48.0	1,568	25,400 cup	52.0	1,695	28,300 cup	
	500 Lead	Bench Mark 2	50.0	1,607	26,600 cup	54.5	1,747	28,200 cup	
	500 Lead	AR2206H	54.0	1,641	24,400 cup	60.0	1,809	28,500 cup	
	500 Lead	AR2208	56.0	1,618	24,200 cup	61.0	1,737	27,900 cup	
	45-70 Government	24" Barrel							
		300 Cast	Trail Boss	14.0	1,200	19,400 cup	16.5	1,285	20,900 cup

C = Compressed Load: L = Lead Projectile

# SINGLE ACTION RIFLE

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
45-70 Government 24" Barrel (cont.)								
	300 Cast	AR2207	30.0	1,390	14,400 cup	35.5	1,641	16,100 cup
	300 Cast	AR2206H	45.0	1,572	14,400 cup	51.0	1,703	15,500 cup
	300 Cast	AR2208	45.0	1,599	17,800 cup	55.0	1,880	20,600 cup
	385 Cast	Trail Boss	14.0	1,075	19,400 cup	16.0	1,140	23,200 cup
	385 Cast	AR2207	28.0	1,302	13,300 cup	32.0	1,483	14,700 cup
	385 Cast	AR2206H	35.0	1,280	11,900 cup	42.0	1,526	23,100 cup
	385 Cast	AR2208	42.5	1,537	15,400 cup	52.5	1,805	21,800 cup
	405 Cast	Trail Boss	12.0	970	24,500 cup	13.0	1,010	25,600 cup
	405 Cast	AR2207	27.0	1,251	14,200 cup	31.0	1,459	17,100 cup
	405 Cast	AR2206H	40.0	1,424	14,900 cup	48.0	1,645	18,900 cup
	405 Cast	AR2208	40.0	1,392	15,600 cup	50.0	1,718	20,900 cup
	485 Cast	Trail Boss	8.0	700	17,100 cup	10.0	805	23,300 cup
	485 Cast	AR2207	28.0	1,279	16,400 cup	32.0	1,434	20,400 cup
	485 Cast	AR2206H	32.0	1,155	15,600 cup	39.0	1,403	22,700 cup
50-140 Sharps 24" Barrel								
	425 Lead	AR2208	95.0	2,127	23,600 cup	102.5	2,294	28,100 cup
	425 Lead	AR2209	105.0	2,033	21,600 cup	114.0	2,242	26,700 cup
	425 Lead	AR2213SC	118.0	2,079	22,800 cup	125.0	2,209	26,300 cup
	515 Lead	AR2208	87.0	1,958	24,000 cup	95.0	2,088	27,900 cup
	515 Lead	AR2209	101.0	1,916	22,000 cup	108.0	2,091	27,200 cup
	515 Lead	AR2213SC	112.0	1,956	23,200 cup	118.0	2,085	27,500 cup

**C** = Compressed Load: **L** = Lead Projectile

# SINGLE ACTION PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
25-20 Winchester								
	71 Lead RNFP	AR2205	6.0	1,146	13,700 cup	7.0	1,346	18,200 cup
	85 Lead RNFP	AR2205	6.0	1,129	18,500 cup	7.0	1,317	20,500 cup
32 H & R Magnum								
	90 Lead SWC	Trail Boss	2.4	750	10,700 cup	2.8	785	11,300 cup
	90 Lead RNFP	AP70N	3.0	819	8,400 cup	3.2	908	11,500 cup
32-20 Winchester (Colt Pistol)								
	90 Lead RNFP	Trail Boss	2.5	785	11,400 cup	2.8	830	13,900 cup
	115 Lead RNFP	Trail Boss	2.2	640	11,300 cup	2.5	705	15,300 cup
	115 Lead RNFP	AP70N	3.0	808	14,200 cup	3.2	869	16,000 cup
32-20 Winchester (Ruger Pistol & Rifle Data only)								
	115 Lead RNFP	AP70N	3.2	869	16,000 cup	4.0	1,037	22,600 cup
357 Magnum								
	90 Lead RNFP	AS30N	2.7	780	6,000 cup	3.5	1,105	12,500 cup
	90 Lead RNFP	Trail Boss	3.5	970	6,800 cup	5.0	1,120	10,700 cup
	125 Lead RNFP	AS30N	3.5	984	11,900 cup	5.3	1,260	33,000 cup
	125 Lead RNFP	Trail Boss	3.5	875	14,900 cup	5.3	1,035	17,900 cup
	125 Lead RNFP	AP70N	4.8	1,046	11,000 cup	6.8	1,401	34,200 cup
	135 Lead RNFP	AS30N	3.4	914	12,200 cup	5.1	1,207	30,200 cup
	135 Lead SWC	AP50N	4.0	870	16,700 psi	5.2	1,065	31,900 psi
	135 Lead RNFP	AP70N	4.8	986	11,700 cup	6.5	1,314	27,800 cup
	158 Lead SWC	AS30N	3.2	867	14,400 cup	4.6	1,079	33,600 cup
	158 Lead SWC	Trail Boss	3.2	755	16,500 cup	4.2	865	20,400 cup
	158 Lead SWC	AP50N	5.0	925	21,800 psi	5.8	1,030	33,000 psi
	158 Lead SWC	AP70N	4.0	890	15,700 cup	6.2	1,247	33,400 cup
38 Special								
	90 Lead RNFP	AS30N	2.5	705	7,900 psi	3.0	940	11,400 psi
	90 Lead RNFP	Trail Boss	3.0	740	7,800 psi	5.0	905	8,100 psi
	125 Lead RNFP	AS30N	2.5	810	8,400 cup	3.5	978	16,900 cup
	125 Lead RNFP	Trail Boss	3.0	755	11,600 psi	5.3	950	13,400 psi
	125 Lead RNFP	AP70N	4.3	872	8,700 cup	4.7	1,036	16,800 cup
	135 Lead RNFP	AS30N	2.6	767	11,400 cup	3.3	910	16,200 cup
	135 Lead SWC	AP50N	2.8	645	9,450 psi	3.5	845	16,850 psi
	135 Lead RNFP	AP70N	4.1	924	13,400 cup	4.6	1,025	16,900 cup
	158 Lead SWC	AS30N	2.8	812	12,900 cup	3.1	871	15,100 cup
	158 Lead SWC	AP50N	3.2	660	8,200 psi	3.8	800	16,600 psi
	158 Lead SWC	Trail Boss	2.7	660	11,400 psi	4.2	805	13,700 psi
	158 Lead SWC	AS50N	3.0	798	12,400 cup	3.5	903	16,100 cup
	158 Lead SWC	AP70N	3.5	756	9,600 cup	4.5	974	16,700 cup

C = Compressed Load: L = Lead Projectile



# SINGLE ACTION PISTOL

CALIBRE	BULLETWEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
38-40 WCF								
	140 Lead RNFP	AS30N	4.7	760	8,700 psi	5.5	890	13,500 psi
	180 Lead RNFP	AS30N	4.7	760	8,700 psi	5.5	890	13,500 psi
	180 Lead RNFP	Trail Boss	4.5	695	7,300 psi	5.5	800	9,900 psi
	180 Lead RNFP	AP70N	6.9	815	8,200 psi	7.5	955	11,900 psi
44 Magnum								
	165 Lead RNFP	AS30N	4.4	910	8,500 cup	5.5	1,064	15,500 cup
	165 Lead RNFP	Trail Boss	6.0	960	17,200 psi	8.0	1,085	18,800 psi
	165 Lead RNFP	AP70N	6.5	918	7,700 cup	7.2	1,059	11,500 cup
	185 Lead RNFP	AS30N	4.2	839	8,900 cup	6.0	1,043	18,400 cup
	185 Lead RNFP	Trail Boss	6.2	935	19,500 psi	7.8	1,050	21,100 psi
	185 Lead RNFP	AP70N	6.4	919	8,400 cup	7.4	1,070	12,600 cup
	200 Lead RNFP	AS30N	4.2	785	8,500 cup	6.4	1,028	20,200 cup
	200 Lead RNFP	Trail Boss	6.1	890	17,900 psi	7.7	990	20,700 psi
	200 Lead RNFP	AS50N	5.3	854	10,000 cup	6.8	1,044	18,300 cup
	200 Lead RNFP	AP70N	6.8	897	10,500 cup	7.8	1,045	15,400 cup
	240 Lead SWC	AS30N	4.3	759	14,000 cup	6.2	940	21,800 cup
	240 Lead SWC	Trail Boss	6.0	830	19,100 psi	7.3	920	21,600 psi
	240 Lead SWC	AP50N	5.5	835	15,280 psi	8.5	1,130	31,955 psi
	240 Lead SWC	AS50N	4.5	737	9,900 cup	6.5	970	21,700 cup
	240 Lead SWC	AP70N	6.5	852	11,700 cup	7.6	1,009	19,900 cup
44 Russian								
	165 Lead RNFP	AS30N	3.0	776	7,300 cup	4.0	977	11,100 cup
	165 Lead RNFP	Trail Boss	3.3	740	7,600 cup	4.5	880	11,600 cup
	200 Lead RNFP	AS30N	3.2	747	8,000 cup	3.7	837	11,100 cup
	200 Lead RNFP	Trail Boss	3.0	645	7,900 cup	3.9	750	10,400 cup
	200 Lead RNFP	AP70N	4.8	816	8,100 cup	5.7	970	11,500 cup
	240 Lead RNFP	AS30N	3.0	711	9,400 cup	3.5	769	10,700 cup
	240 Lead RNFP	Trail Boss	3.0	605	8,800 cup	3.5	660	10,000 cup
	240 Lead RNFP	AP70N	3.8	679	6,400 cup	4.6	841	11,000 cup
44 Special								
	165 Lead RNFP	AS30N	3.6	836	6,000 cup	4.6	1,009	13,400 cup
	165 Lead RNFP	Trail Boss	4.8	865	10,700 cup	7.0	1,005	12,100 cup
	165 Lead RNFP	AP70N	5.5	851	5,700 cup	6.3	1,042	10,900 cup
	185 Lead RNFP	AS30N	3.5	810	7,800 cup	4.2	930	13,200 cup
	185 Lead RNFP	Trail Boss	4.5	790	10,400 cup	6.6	945	12,600 cup
	185 Lead RNFP	AP70N	5.4	823	7,700 cup	6.4	1,031	13,900 cup
	200 Lead RNFP	AS30N	3.5	748	7,800 cup	4.5	891	14,000 cup
	200 Lead RNFP	Trail Boss	4.3	760	8,700 cup	6.3	885	13,200 cup
	200 Lead RNFP	AS50N	4.3	774	7,300 cup	5.2	919	13,500 cup

**C** = Compressed Load: **L** = Lead Projectile

# SINGLE ACTION PISTOL

CALIBRE	BULLET WEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
44 Special (cont.)								
	200 Lead RNFP	AP70N	5.5	802	8,200 cup	6.5	960	12,900 cup
	240 Lead SWC	AS30N	3.2	669	9,000 cup	4.0	771	13,500 cup
	240 Lead SWC	Trail Boss	4.0	675	9,700 cup	5.2	765	11,700 cup
	240 Lead SWC	AS50N	3.9	723	8,900 cup	4.7	825	13,000 cup
	240 Lead SWC	AP70N	4.9	721	8,000 cup	5.6	873	13,300 cup
44-40 WCF								
	200 Lead RNFP	AS30N	4.2	648	8,200 psi	5.0	765	11,700 psi
	200 Lead SWC	AP50N	5.5	755	4,200 psi	6.5	920	8,900 psi
	200 Lead RNFP	AP70N	6.6	722	10,000 psi	7.3	777	11,100 psi
	200 Lead SWC	AR2205	18.0	885	7,500 psi	20.0	1,030	12,900 psi
	200 Lead RNFP	Trail Boss	5.5	725	7,800 psi	6.5	825	11,900 psi
	215 Lead SWC	AP50N	5.5	805	6,250 psi	6.4	940	13,800 psi
45 Long Colt								
	160 Lead RNFP	AS30N	5.0	907	7,500 cup	6.4	1,083	13,500 cup
	160 Lead RNFP	Trail Boss	7.0	905	8,100 psi	8.5	1,020	10,800 psi
	160 Lead RNFP	AP70N	6.5	798	7,400 cup	9.5	1,197	12,900 cup
	180 Lead RNFP	AS30N	4.8	840	7,900 cup	6.0	1,016	13,800 cup
	180 Lead RNFP	Trail Boss	6.0	820	9,400 psi	7.3	935	12,700 psi
	180 Lead RNFP	AP70N	6.5	791	7,100 cup	9.2	1,161	13,900 cup
	200 Lead RNFP	AS30N	4.6	777	5,900 cup	5.9	931	13,100 cup
	200 Lead RNFP	Trail Boss	5.5	705	8,000 psi	6.5	855	11,000 psi
	200 Lead SWC	AP50N	5.5	750	7,570 psi	7.0	995	12,330 psi
	200 Lead RNFP	AP70N	6.4	749	5,700 cup	8.8	1,067	13,600 cup
	215 Lead RNFP	AS30N	4.6	754	6,400 cup	5.7	889	13,400 cup
	215 Lead RNFP	Trail Boss	5.5	725	8,100 psi	6.5	820	10,300 psi
	215 Lead RNFP	AP70N	6.8	777	6,300 cup	8.6	1,001	13,800 cup
	230 Lead RNFP	AS30N	4.4	734	7,600 cup	5.4	865	13,900 cup
	230 Lead RNFP	Trail Boss	5.5	685	9,100 psi	6.5	805	12,400 psi
	230 Lead RNFP	AP70N	6.5	761	7,600 cup	8.1	975	13,800 cup
	250 Lead RNFP	AS30N	4.2	713	8,500 cup	5.1	817	13,400 cup
	250 Lead RNFP	Trail Boss	4.5	605	8,800 psi	5.8	730	12,700 psi
	250 Lead RNFP	AS50N	5.4	786	9,200 cup	6.0	866	13,400 cup
	250 Lead RNFP	AP70N	6.5	742	9,200 cup	7.8	941	13,000 cup
	255 Lead SWC	AP50N	6.0	750	7,850 psi	7.0	895	11,470 psi
	255 Lead SWC	AP70N	8.0	825	10,300 psi	8.5	905	13,100 psi
	255 Lead SWC	AP100	11.0	835	10,800 psi	12.0	975	16,650 psi
45 S & W (Schofield)								
	200 Lead RNFP	AS30N	4.0	733	8,300 cup	5.0	845	13,100 cup
	200 Lead RNFP	Trail Boss	4.0	685	9,000 cup	5.0	790	13,200 cup

**C** = Compressed Load: **L** = Lead Projectile

# SINGLE ACTION PISTOL

CALIBRE	BULLETWEIGHT (grains)	POWDER TYPE	STARTING LOADS			MAXIMUM LOADS		
			POWDER WEIGHT (Grains)	VELOCITY (fps)	PRESSURE	POWDER WEIGHT (grains)	VELOCITY (fps)	PRESSURE
45 S & W (Schofield) (cont.)								
	200 Lead RNFP	AP70N	6.0	773	9,100 cup	7.0	938	13,100 cup
	230 Lead RNFP	AS30N	4.0	697	9,400 cup	4.7	783	13,600 cup
	230 Lead RNFP	Trail Boss	4.0	650	9,000 cup	5.0	740	13,000 cup
	230 Lead RNFP	AP70N	5.5	738	9,400 cup	6.0	816	11,400 cup
	250 Lead RNFP	AS30N	4.0	674	11,000 cup	4.2	710	12,500 cup
	250 Lead RNFP	Trail Boss	3.5	540	7,300 cup	4.8	685	13,200 cup
	250 Lead RNFP	AP70N	6.0	724	9,900 cup	6.3	830	13,800 cup

**C** = Compressed Load: **L** = Lead Projectile

# SINGLE ACTION SHOTGUN

## 12 Gauge 2<sup>3</sup>/<sub>4</sub>" Remington Premier Plastic Shells

Weight: 28g (1 oz)

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE
<b>AS30N</b>	16.8	6,600 lup	1,125	Rem. TGT 12	Rem. 209P
	15.7	7,100 lup	1,125	WAA12SL	WIN209
	17.9	7,400 lup	1,180	Rem. TGT 12	Rem. 209P
	17.0	8,200 lup	1,180	WAA12SL	WIN209
	18.9	8,100 lup	1,235	Rem. TGT 12	Rem. 209P
	18.4	9,500 lup	1,235	WAA12SL	WIN209
	19.9	8,800 lup	1,290	Rem. TGT 12	Rem. 209P
	19.8	10,700 lup	1,290	WAA12SL	WIN209
<b>AS50N</b>	20.2	6,800 lup	1,125	Rem. TGT 12	Rem. 209P
	18.4	7,100 lup	1,125	WAA12SL	WIN209
	20.9	7,700 lup	1,180	Rem. TGT 12	Rem. 209P
	20.1	8,600 lup	1,180	WAA12SL	WIN209
	21.4	8,900 lup	1,235	Rem. TGT 12	Rem. 209P
	21.0	10,000 lup	1,235	WAA12SL	WIN209

Weight: 32g (1 1/8 oz)

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE
<b>AS30N</b>	16.6	6,400 lup	1,090	Windjammer	CCI209
	16.9	6,900 lup	1,090	Rem. Fig 8	Rem. 209P
	18.0	7,500 lup	1,145	Windjammer	CCI209
	18.0	7,900 lup	1,145	Rem. Fig 8	Rem. 209P
	19.4	8,600 lup	1,200	Windjammer	CCI209
	19.2	9,000 lup	1,200	Rem. Fig 8	Rem. 209P
<b>AS50N</b>	19.2	6,100 lup	1,090	Windjammer	CCI209
	18.6	6,400 lup	1,090	Rem. Fig 8	Rem. 209P
	18.3	7,000 lup	1,090	WAA12	Rem. 209P
	19.8	6,500 lup	1,145	Windjammer	CCI209
	19.6	7,000 lup	1,145	Rem. Fig 8	Rem. 209P
	18.8	7,600 lup	1,145	WAA12	Rem. 209P
	21.2	7,500 lup	1,200	Windjammer	CCI209
	20.9	7,500 lup	1,200	Rem. Fig 8	Rem. 209P
	19.7	8,700 lup	1,200	WAA12	Rem. 209P
	22.3	8,300 lup	1,255	Windjammer	CCI209
	20.9	10,400 lup	1,255	WAA12	Rem. 209P
	21.7	9,100 lup	1,255	Rem. Fig 8	Rem. 209P
<b>AP70N</b>	23.2	8,400 psi	1,200	Windjammer	CCI209
	22.5	8,900 psi	1,200	Rem. Fig 8	WIN209
	21.5	9,800 psi	1,200	WAA12	WIN209

# SINGLE ACTION SHOTGUN

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE
<b>Weight 32g (1 1/8 oz) (cont.)</b>					
<b>AP70N (cont.)</b>	24.4	9,100 psi	1,255	Windjammer	CCI209
	23.7	9,900 psi	1,255	Rem. Fig 8	WIN209
	23.0	10,700 psi	1,255	WAA12	WIN209
	25.0	10,800 psi	1,310	Rem. Fig 8	WIN209
	25.7	10,200 psi	1,310	Windjammer	CCI209

## 12 Gauge 2¾" Winchester Compression-Formed AA Type Shells

<b>Weight: 28g (1 oz)</b>					
POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE
<b>AS30N</b>	16.6	6,700 lup	1,125	Rem. TGT 12	CCI209
	16.0	7,400 lup	1,125	WAA12SL	WIN209
	17.6	6,400 lup	1,125	Purple PC	Rem. 209P
	17.7	7,700 lup	1,180	Rem. TGT 12	CCI209
	18.6	6,800 lup	1,180	Purple PC	Rem. 209P
	17.2	8,300 lup	1,180	WAA12SL	WIN209
	18.7	8,500 lup	1,235	Rem. TGT 12	CCI209
	19.5	7,200 lup	1,235	Purple PC	Rem. 209P
	18.5	9,200 lup	1,235	WAA12SL	WIN209
	19.8	9,500 lup	1,290	Rem. TGT 12	CCI209
	19.8	10,200 lup	1,290	WAA12SL	WIN209
	20.5	7,600 lup	1,290	Purple PC	Rem. 209P
<b>AS50N</b>	18.9	6,900 lup	1,125	WAA12SL	WIN209
	19.2	6,700 lup	1,125	WAA12SL	CCI209
	20.8	5,900 lup	1,125	Rem. TGT 12	Rem. 209P
	20.4	8,300 lup	1,180	WAA12SL	WIN209
	20.6	7,500 lup	1,180	WAA12SL	CCI209
	21.5	7,100 lup	1,180	Rem. TGT 12	Rem. 209P
	21.3	8,900 lup	1,235	WAA12SL	WIN209
	22.3	8,800 lup	1,235	WAA12SL	CCI209
	22.3	7,800 lup	1,235	Rem. TGT 12	Rem. 209P

<b>Weight: 32g (1 1/8 oz)</b>					
POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE
<b>AS30N</b>	17.1	7,200 lup	1,090	Red PC	Rem. 209P
	16.1	7,700 lup	1,090	WAA12	WIN209
	16.0	7,700 lup	1,090	Rem. Fig 8	WIN209

# SINGLE ACTION SHOTGUN

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE
Weight 32g (1 1/8 oz) (cont.)					
AS30N (cont.)	18.4	7,800 lup	1,145	Red PC	Rem. 209P
	17.0	8,500 lup	1,145	Rem. Fig 8	WIN209
	17.3	8,800 lup	1,145	WAA12	WIN209
	18.1	9,400 lup	1,200	Rem. Fig 8	WIN209
	18.2	9,800 lup	1,200	WAA12	WIN209
	19.6	8,400 lup	1,200	Red PC	Rem. 209P
AS50N	17.6	7,400 lup	1,090	WAA12	WIN209
	18.3	6,800 lup	1,090	Red PC	WIN209
	18.1	8,300 lup	1,145	WAA12	WIN209
	18.9	7,200 lup	1,145	Red PC	WIN209
	20.1	6,300 lup	1,145	Rem. Fig 8	Rem. 209P
	19.2	9,600 lup	1,200	WAA12	WIN209
	20.2	8,300 lup	1,200	Red PC	WIN209
	21.1	7,700 lup	1,200	Rem. Fig 8	Rem. 209P
	21.3	10,800 lup	1,255	WAA12	WIN209
	21.3	9,700 lup	1,255	Red PC	WIN209
	22.1	8,000 lup	1,255	Rem. Fig 8	Rem. 209P
	22.0	10,000 psi	1,200	WAA12	WIN209
	22.5	9,000 psi	1,200	Rem. Fig 8	WIN209
AP70N	22.7	10,600 psi	1,255	WAA12	WIN209
	23.5	10,000 psi	1,255	Rem. Fig 8	WIN209
	24.5	10,700 psi	1,310	Rem. Fig 8	WIN209

## 16 Gauge 2¾" Remington Premier SP Plastic Shells

Weight: 28g (1 oz)

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE
AP70N	18.5	8,800 psi	1,165	Rem. SP 16	WIN209
	18.5	9,000 psi	1,165	WAA12	WIN209
	19.5	9,000 psi	1,220	WAA12	WIN209
	19.8	9,900 psi	1,220	Rem. SP 16	WIN209
	20.5	10,400 psi	1,275	Rem. SP 16	WIN209
	20.5	10,400 psi	1,275	WAA12	WIN209

# SINGLE ACTION SHOTGUN

## 16 Gauge 2¾" Winchester Compression-Formed Shells

Weight: 28g (1 oz)

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE
AP70N	19.0	8,800 psi	1,165	ACTIV G-28	WIN209
	19.0	9,200 psi	1,165	WAA16	WIN209
	20.0	10,300 psi	1,220	WAA16	WIN209
	20.3	9,700 psi	1,220	ACTIV G-28	WIN209
	20.7	11,000 psi	1,275	WAA16	WIN209
	21.5	10,600 psi	1,275	ACTIV G-28	WIN209

## 20 Gauge 2¾" Remington RXP Plastic Shells

Weight: 24g (7/8 oz)

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE
AS50N	14.0	10,700 psi	1,200	RXP20	Rem. 209P
	14.0	11,900 psi	1,200	WAA20	WIN209
AP70N	15.8	9,000 psi	1,200	RXP20	Rem. 209P
	15.8	9,600 psi	1,200	WAA20	WIN209

## 20 Gauge 2¾" Winchester Compression-Formed AA Type Shells

Weight: 24g (7/8 oz)

POWDER	WEIGHT (grains)	PRESSURE	VELOCITY (fps)	WAD TYPE	PRIMER TYPE
AS50N	14.0	10,800 psi	1,200	RXP20	Rem. 209P
	14.0	11,200 psi	1,200	PC20	WIN209
	14.0	11,800 psi	1,200	WAA20	WIN209
AP70N	15.5	10,200 psi	1,200	WAA20	WIN209
	15.8	9,800 psi	1,200	RXP20	Rem. 209P

**No data on this page**



# POWDER EQUIVALENTS

MANUFACTURERS									
ADI	Hodgdon	Alliant	IMR	Winchester	Vectan	Norma	Accurate Arms	Vihtavuori	ADI
						R-1			
		Bullseye						N310	
AS30N	Clays	Red Dot			AS	N2010	NITRO 100		AS30N
Trail Boss			Trail Boss						Trail Boss
AP50N	HP-38	e3	PB	W231			AA 2	N320	AP50N
AS50N	International	Green Dot	700X	WST			AA 5		AS50N
AP70N	Universal	Unique	SR 7625					N330	AP70N
		Herco		WSF	A1				
			800X	WAP			AA 7	N340	
AP100			SR 4756						AP100
	HS-6			W540				3N37	
	HS-7	Blue Dot		W571			AA 9	N350	
		Steel			Ba 6			N105	
		2400	SR 4759					N110	
AR2205	H4227 / H110		IMR 4227	W296		R-123	AA 1680	N120	AR2205
AR2207	H4198	Reloader 7	IMR 4198	W680	Tu 2000	N200		N130	AR2207
Bench Mark 1								N133	Bench Mark 1
AR2219	H322	10-X							AR2219
Bench Mark 2	BENCHMARK		IMR 3031				AA 2015		Bench Mark 2
AR2206	BLC(2)				Tu 3000		AA 2230		AR2206
	H335			W748				N135	
AR2206H	H4895		IMR 4895		Tu 5000		AA 2460		AR2206H
AR2208	Varget		IMR 4064				AA 2520		AR2208
			IMR 4320			N201			
						N202	AA 2700	N140 / N540	
	H380	Reloader 15				N203			
AR2209	H414 / H4350		IMR 4350	W760	Tu 7000	N204	AA 4350	N150 / N550	AR2209
	H450	Reloader 19				N205			
			IMR 4831	WMR			AA 3100	N160 / N560	
AR2213SC	H4831								AR2213SC
		Reloader 22	IMR 7828	WXR	Tu 8000	MRP		N165	
AR2217	H1000							N170	AR2217
AR2225	Retumbo	Reloader 25					Magpro	24N41	AR2225
AR2218	H870 / H50BMG						AA 8700	20N29	AR2218

## NOTES:

Table shows only approximate equivalent values within about 5%.

Actual burning rates can vary depending on the calibre, weapon, loading components and practices, as well as from powder lot to powder lot. As a consequence, it must be understood that Thales cannot accept any responsibility for the use of this information in any way.

# BURNING RATE EXAMPLES

This section provides examples of applications for the ADI powders across the range of burning rates.

POWDER	BURNING RATE	EXAMPLES OF APPLICATION		
		PISTOL	SHOTGUN	RIFLE
AS30N	Fastest		12 Gauge Trap/Skeet Load	
Trail Boss	↑	.45 Colt		45-70 Government
AP50N		.45 ACP		
AS50N			12 Gauge Trap/Sporting	
AP70N		40-40 Winchester	12 Gauge Field Load	
AP100		.38 Super Auto	20 Gauge	
AR2205		357 Magnum	410 Gauge	.22 Hornet
AR2207		.7mm TCU		.222 Remington
Bench Mark 1				.223 Remington
AR2219				6mm PPC
Bench Mark 2				.22-250 Remington
AR2206				.308 Winchester
AR2206H				257 Roberts
AR2208				30-30 Winchester
AR2209				30-06 Springfield
AR2213SC				300 Win. Magnum
AR2217				7mm Rem. Magnum
AR2225	↓			300 Rem. Ultra Magnum
AR2218	Slowest			.30/378 Weatherby



5TH EDITION

The ADI Powders Handloaders' Guide is available at gun shops where ADI powders are sold.

### FOR HANDLOADING INFORMATION:

Thales Australia will respond to written enquiries with safe and technically accurate advice.

Send your enquiries to: [reload.support@adi-powders.com.au](mailto:reload.support@adi-powders.com.au)

By mail to: Reloading Enquiries, Thales Australia, Private Bag No 1, MULWALA, New South Wales 2647, Australia or fax to: +61 (0)3 5744 1873.

Visit us at: **[www.adi-powders.com.au](http://www.adi-powders.com.au)**

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Thales Australia's ADI powders are sold at major gun shops.

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